

NOKIA 8270



User Guide



NOKIA
CONNECTING PEOPLE

Nokia 8270 phone at a glance



Quick guide to functions

Make a call	Enter a phone number, press  .
Answer a call	Press  or Answer.
Answer a call with call waiting	Press  .
End a call	Press  .
Decline a call	Press  .
Mute a call	Press Mute during a call.
Redial	Press  twice.
Adjust call volume	Press the side volume keys during a call.
Use the in-call menu	Press Options while in a call.
Use 1-touch dialing	Press and hold key 2 through 8. You must first assign a number in the phonebook to a key.
Save a name and number	Enter a number, press Save, then enter a name and press OK.
Recall a name/number	Press Names, select Search.
Check voice mail	Press and hold  OR call your voice mailbox number (contact service provider for complete details).
Send a text message	Press Menu 01-1. Select Write new. Add the recipient's phone number and press OK. Press Options again and scroll to Edit message. Write the message. Press Options, scroll to Send, press Select. Note: Messaging services are dependent on your service provider.
Read new message	Press Read, then press Read again when the message is highlighted.
Reply to a message	After reading the message, press Options, select Reply, write the reply, press Options, select Send.

The wireless phone described in this guide is approved for use in CDMA 1900 networks.

LEGAL INFORMATION

Part No. 9355564 Issue 1

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US Patent No 5818437 and other pending patents.

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Your phone may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC or Industry Canada can require you to stop using your telephone if such interference cannot be eliminated. If you require assistance, contact your local service facility. This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

The term "IC:" before the certification/registration number only signifies that Industry Canada technical specifications were met.

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1) For your safety

Read these simple guidelines. Breaking the rules may be dangerous or illegal. Further detailed information is given in this manual.



SWITCH OFF WHERE PROHIBITED

Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.



ROAD SAFETY COMES FIRST

Don't use a hand-held phone while driving.



INTERFERENCE

All wireless phones may get interference, which could affect performance.



SWITCH OFF IN HOSPITALS

Follow any regulations or rules. Switch the phone off near medical equipment.



SWITCH OFF IN AIRCRAFT

Wireless devices can cause interference in aircraft.



SWITCH OFF WHEN REFUELING

Don't use the phone at a refueling point. Don't use near fuel or chemicals.



SWITCH OFF NEAR BLASTING

Don't use the wireless phone where blasting is in progress. Observe restrictions, and follow any regulations or rules.



USE SENSIBLY

Use only in the normal position. Don't touch the antenna unnecessarily.



QUALIFIED SERVICE

Only qualified personnel may install or repair phone equipment.



ACCESSORIES AND BATTERIES

Use only approved accessories and batteries. Do not connect incompatible products.



WATER-RESISTANCE

Your wireless phone is not water-resistant. Keep it dry.



CONNECTING TO OTHER DEVICES

When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.



CALLING

Ensure the phone is switched on and in service. Enter the phone number, including the area code, then press . To end a call, press . To answer a call, press .



EMERGENCY CALLS

Note: Ensure the phone is switched on and in service. Press  as many times as needed (for example, to exit a call, to exit a menu) to clear the display. Enter the emergency number, then press . Give your location. Do not end the call until told to do so.

2) Welcome

This section provides information needed before you use your phone.

This guide describes the Nokia 8270 phone, which is approved for use in CDMA 1900 networks.

• **NETWORK SERVICES AND YOUR WIRELESS PROVIDER**

A number of features included in this guide are called Network Services. These are special services you arrange through your wireless service provider. Before you can take advantage of any of these Network Services, you must subscribe to them through your service provider and obtain instructions for their use from your service provider. In many cases, the provider will furnish descriptions of their services and specific instructions for using features such as:

- Voice mail, call waiting, call forwarding, and caller ID
- E-mail, text and messaging
- News and information services
- Other select services, including Internet.



Note: Wherever possible, network dependent features are identified within the description of the feature.

Wireless providers may differ in their support of features.



Note: Some networks may not support all language-dependent characters and services. Before you sign up, make sure a wireless provider supports the features that you need.

• **REGISTER YOUR PHONE**

Make sure to register your phone at www.warranty.nokiausa.com or 1-888-NOKIA-2U (1-888-665-4228) so that we can serve your needs better if you should need to call the center or have your phone repaired.

• E-NEWSLETTERS

When you register your phone, you can sign up for Nokia's e-newsletter *Nokia Connections* if you would like. You will receive tips and tricks on using your phone, accessory information, and special offers.

• LEARN ABOUT ACCESSIBILITY SOLUTIONS

Nokia is committed to making mobile phones easy to use for all individuals, including those with disabilities. For more information, visit the Nokia World Wide Web site:

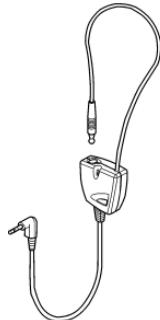
www.nokiaaccessibility.com

LPS-3 Mobile Inductive Loopset

The LPS-3 Mobile Loopset gives people with T-coil equipped hearing aids the ability to make and receive calls without noise interference.

The loopset gives hearing-impaired users clear access to digital telephony for the first time.

The loopset is easy to use. You wear the loopset around your neck, connect it to your phone, and speak directly toward the microphone.



 **Note:** The loopset can be purchased separately as an accessory. For detailed instructions, refer to the booklet that comes with the LPS-3.

For more information on this and other Nokia accessories, see "Accessories" on page 103.

Accessible features

The Nokia 8270 mobile phone has many accessible features, including:

- Nibs to the left and right of  for quick reference to the keypad.
- Tactile feedback when you press a key.
- Ability to send and receive short text messages.
- Convenience of one-touch dialing.
- Ability to define ring tones for different callers in your phone book.

- **VISIT NOKIA ON THE WEB**

The latest version of this manual may be available on Nokia's World Wide Web site at: www.nokia.com/us

- **CONTACT NOKIA**

To help Nokia promptly answer your questions, please have your phone's model number, ESN number, and your local zip code ready when you call Customer Service. The ESN and model number are on the back of your phone under the battery. If you're calling about an accessory, please have it available for reference.

Nokia Customer Care Center (USA)

7725 Woodland Center Boulevard, Suite 150

Tampa, FL 33614

Tel: 1-888-NOKIA-2U (1-888-665-4228)

Fax: 1-813-249-9619

TTY:1-800-24-NOKIA (1-800-246-6542)

Nokia Canada Customer Interaction Center

Nokia Products Ltd.

601 Westney Rd. South

Ajax, Ontario L1S 4N7

Tel:1-888-22-NOKIA (1-888-226-6542)

Fax:1-905-427-1070

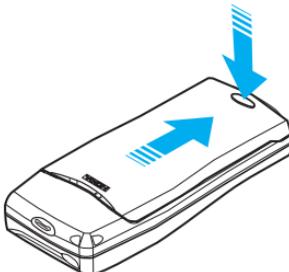
3) Prepare your phone for use

• INSTALLING THE BATTERY

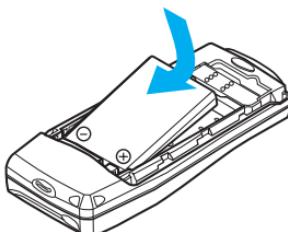
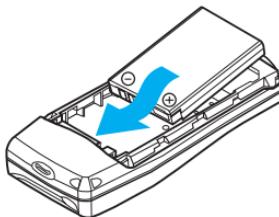
If your dealer has already installed the battery for you, please see "Charge the battery" on page 8.

 **Note:** Before installing/replacing the battery, always make sure that the phone is switched off and that the phone is not connected to a charger or other device.

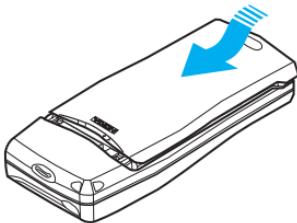
- 1 With the back of the phone facing you, press the back cover release button. Slide the back cover off.



- 2 Insert the battery.



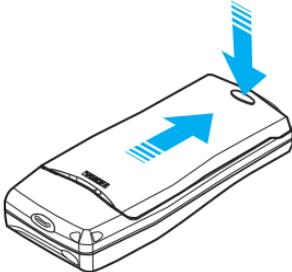
- 3 Slide the back cover into its place.



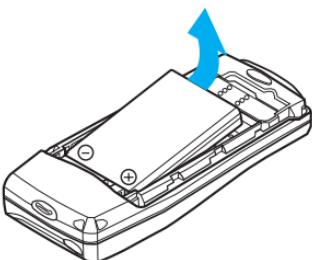
• REMOVE THE BATTERY

 **Note:** Before installing the battery, always make sure that the phone is switched off and that the phone is not connected to a charger or other device.

- 1 With the back of the phone facing you, press the back cover release button. Slide the back cover off.



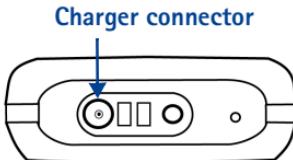
- 2 Remove the battery by lifting it from the finger grip.



• CHARGE THE BATTERY

Before you use your phone and when the battery runs down, you need to charge it.

- 1 Connect the charger to an AC wall outlet. If the phone is turned on, the message **Charging** appears. Then the battery power indicator bar scrolls from bottom to top.



- 2 Connect the lead from the charger to the bottom of the phone.

- You can use the phone while the battery is charging.



Important: Disconnect your phone from the charger if the phone becomes hot while you're making a call.

- If the battery is totally empty, it might take a few minutes before the charging indicator appears on the screen.
- The time to charge the battery depends on the charger you use.
- The battery is fully charged when the battery indicator bar stops scrolling and the **Battery full** message appears (if phone is on).



Note: To ensure that the battery is charged to capacity, leave the phone connected to the charger for an additional two hours after the **Battery Full** message appears.

- 3 Disconnect the charger from the AC outlet and the phone:

- When a charger is not in use, disconnect it from the power source.
- Do not leave the battery connected to a charger for more than a week. Overcharging the battery could shorten its life span. If left unused, a fully charged battery will discharge itself over time.

4) Get to know your phone

• KEYS

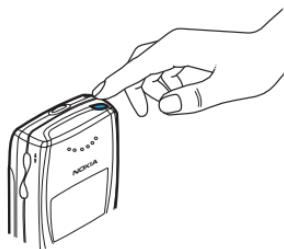
	Power key Switch the phone on or off (press and hold for more than one second)
	Selection keys Perform the function indicated by the text on the screen above the key
	Scroll keys <ul style="list-style-type: none"> • Scroll menu items and move the highlighter line up and down in a list of displayed items • Move the cursor to enter numbers and text • Display the phone book
	Talk key <ul style="list-style-type: none"> • Make a call (enter phone number and press key) • Answer a call • Display a list of recently-dialed numbers (display the Start screen, then press this key)
	End key <ul style="list-style-type: none"> • End a call • Mute the ringing for an incoming call (you can still answer the call by pressing) • Return to the Start screen at any time

	<p>Number keys</p> <ul style="list-style-type: none"> Enter numbers and letters Enter a space while entering text, press Call your voice mailbox, press and hold Make a call using one-touch dialing (press and hold the appropriate number key)
	<p>Star key Insert special characters</p>
	<p>Pound key</p> <ul style="list-style-type: none"> Change modes when entering text Type of text input (multitap/predictive) Letter case (upper/lower) Character type (letters/numbers)

Warning: Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.

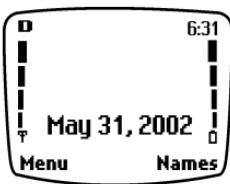
Switch on your phone

To turn the phone on or off, press and hold the power key for a few seconds. To turn off the phone, you can also quickly press the power key then press OK.



Start screen

When you turn on your phone, a service provider screen (or a welcome note, if you have created one) appears for a moment, then the Start screen appears. The Start screen is the "home base" for your phone. To return to this screen, press  at any time except during a call (unless you want to hang up).



 **Tip:** While entering characters into your phone, if you press , the characters are not saved.

• NAVIGATION KEYS

Selection keys

Use the selection keys to navigate through and select the phone's many options.

At the Start screen (shown above), two options appear at the bottom of the screen: **Menu** and **Names**. The selection keys are just below these options:

- The left selection key is below **Menu**.
- The right selection key is below **Names**.



At the Start screen, when you press the left selection key, the menu item, **Messages**, appears. The text above the left selection key changes to **Select** and the text above the right selection key changes to **Exit**.

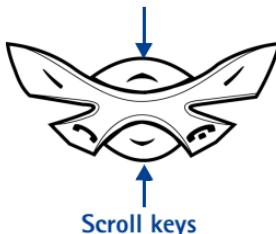
At the Start screen, when you press the right selection key, a list of options for the **Names** (phone book) feature appears, along with the same **Select** and **Exit** options that appear when you select **Menu**.

This guide refers to the selection keys by the names that appear above them. Example: "Press **Menu**" means to press the selection key below the word **Menu**.

Scroll keys

Use the scroll keys to:

- Scroll the menu items and move the highlighter line up and down in a list of displayed items
- Move the cursor (flashing, vertical line) when entering letters and numbers
- Display the phone book (at the Start screen, press  to view a list of phone book entries)

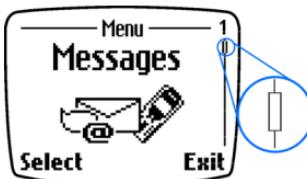


Scroll keys

Scroll bar

When you press Menu, a scroll bar appears on the far right side of the Start screen. This bar appears as a straight line with one tab, and it indicates your location in the menu.

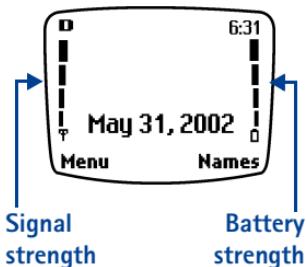
As you progress through the menu, the tab moves lower on the scroll bar. If you move backward through the menu, the tab moves up.



• INDICATORS AND ICONS

Indicators

Signal strength - The signal strength of the wireless network at your current location. The greater the number of bar segments, the stronger the signal.

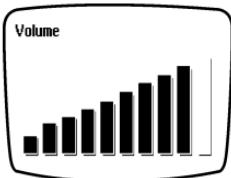


Signal strength

Battery strength

Battery charge status - While the battery charges, the bar segments on the indicator move upward to show that the battery is charging. While the phone is not connected to a charger, the greater the number of bar segments, the greater the level of charge.

Earpiece volume - Appears when you adjust the earpiece volume during a call.



Icons

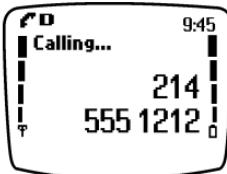
- 📞 Active call - A call is in progress.
- ⏰ Alarm - The alarm clock is set.
- 🎵 Custom ring tone - A custom ring tone has been assigned to a name in the phone book.
- 🔒 Keyguard - Keyguard is activated. This prevents accidental key presses. To deactivate it, press **Unlock**, then *** +**.
- 🔤 Letter mode (lower case) - Characters are entered as lower case letters. To switch to upper case letter mode, press **⇧ #**. To switch to number mode, press and hold **⇧ #**.
- 🔤 Letter mode (upper case) - Characters are entered as upper case letters. To switch to lower case letter mode, press **⇧ #**.
- 🔢 Number mode - Characters entered are numbers. When you are entering letters, you can switch to the number mode by pressing and holding **⇧ #**.
- 📅 Reminder (To Do) - You have a calendar reminder to do something.

-  **Reminder (Birthday)** - You have a calendar reminder that someone's birthday is on that date.
-  **Reminder (Call)** - You have a calendar reminder to call someone.
-  **Reminder (Meeting)** - You have a calendar reminder of a meeting.
-  **Roaming** - Your phone is roaming outside its home system.
-  **Silent tones** - You selected the **Silent** profile (tones are off).
-  **Special characters** - Highlight a special character, then press **Insert**. To switch to this mode while you are entering letters, press .
-  **Text entry (predictive, lower case)** - The phone is ready for you to enter lower case letters in the predictive text input mode.
-  **Text entry (predictive, sentence case)** - The phone is ready for you to enter letters in the predictive text input mode. The first letter of the first word in each sentence will be upper case.
-  **Text/e-mail message** - You have one or more new text or e-mail messages.
-  **Voice message** - You have one or more new voice messages. To call your voicemail box, press and hold .

5) Make and answer calls

• MAKE A CALL

- 1 If keyguard is active, press **Unlock**, then the star key  to deactivate it. To learn about Keyguard, see "Use Keyguard to lock the keypad" on page 59.
- 2 Enter the phone number (if necessary, enter a 1 and the area code).



If you make a mistake while entering the number, press  to move the cursor to the left and  to move it to the right. To delete the character to the left of the cursor, press **Clear**. To delete all characters, press and hold **Clear**.

- 3 Press . To end the call or to cancel the call, press .

NOTES

- For information about blocking caller ID, See "Choose to block caller ID" on page 40.
- Your phone does not have a dial tone.
- Hold the phone as you would any other telephone, with the earpiece over your ear and the microphone directed toward your mouth.
- It is normal for your phone to become warm during use. If the phone becomes too warm, it automatically drops the current call and returns to the **Start** screen. Until the phone cools, you will be unable to receive or make calls.

• END A CALL

To end a call or to cancel the call, press . To clear any characters from the screen, press  again.

Answer a call

To answer a call, press . To end the call, press .

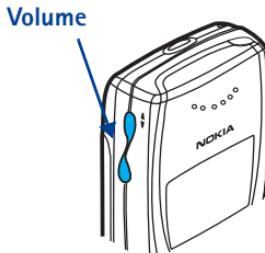
NOTES

- If the Anykey answer feature (Menu 4 – 1 – 4) is set to On, you can answer the call by pressing any key except  or . However, if Keyguard is active, you must press  to answer the call, even if the Anykey answer feature is set to On.
- If the wireless network cannot identify the caller's phone number or if the caller has chosen to block caller ID, the message **Caller ID unavailable** or **Caller ID blocked** may appear. If two entries in your phone book have the same phone numbers for both entries, the caller's name does not appear when they call.
- If you want to stop your phone quickly from ringing (for example, if you're in a public place), press . As long as the caller's phone number (or name) remain on the screen, you can still answer the call.

Adjust the earpiece volume

During a phone call, you can adjust the volume for your phone's earpiece:

- The top volume key increases volume, and the bottom one decreases the volume. The volume keys only adjust volume during phone calls.
- If an accessory, such as a headset or a handsfree device or one with its own loudspeaker, is connected to your phone, the volume keys will adjust the volume for that accessory as well.



Redial the last-dialed number

To return to the Start screen (press ), then press  two times.

Get a strong signal

Your phone operates on radio waves, and the reception quality depends on the radio signal strength in your area. A wireless network maintains the radio coverage, and the quality of calls on a wireless phone depends on the wireless radio signal strength.



Tip: Your phone has a built-in antenna. As with any other radio transmitting device, do not touch the antenna unnecessarily when the phone is switched on.

Contact with the antenna affects call quality and

may cause the phone to operate at a higher power level than otherwise needed. Not touching the antenna area during a phone call optimizes the antenna performance and the talk time of your phone.



Right



Wrong

An indicator on the left of the Start screen displays the radio signal strength. More segments mean a stronger signal. To improve reception, move your phone slightly; if you're indoors, move toward a window.

Your phone is optimized for digital service in a compact size.

Keep calls private

The Voice Privacy feature encrypts the voice channel so that no one can eavesdrop on your phone conversations. Voice Privacy is a feature that must be supported by your service provider. Contact your service provider for more information on this feature.

By default, the voice privacy setting on your phone is set to **Off**. To turn it on:

- 1 Press Menu 4 – 4 –1 (Settings > Network services > Voice privacy).
- 2 Scroll to **On**, then press **OK**.

During a call, Voice Privacy notifies you that it is active with a beep and the message **Voice privacy active** on the screen. During a call, your phone sounds two short beeps and displays the message **Voice privacy not active** if voice privacy is lost.

6) Use phone menus

• NAVIGATE MENUS

A menu lists choices that appear on your phone's screen. To navigate menus, you can scroll or use shortcuts.

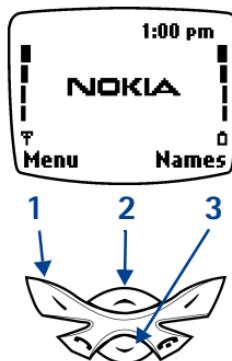
Scroll through menus

You navigate menus by scrolling through them:

- Menu appears above the left selection key only while the Start screen is displayed. To display the Start screen, press .
- To scroll through menus, select Menu (1), and press  (2) or  (3).
- To select an item, press the selection key (Select, OK, or Options).
- To return to the previous screen, press Back or Exit.
- To return to the Start screen, press .
- If you highlight an item and return to a previous screen or the Start screen, the highlighted menu item will not be selected.
- If you use your keypad to enter characters and then return to the previous screen or the Start screen, the characters will not be saved.

Use a shortcut

To navigate to a menu item quickly without scrolling, use a menu shortcut. A shortcut number for each menu item appears in the upper right corner of the screen. For example, to adjust the ringing volume, display the Start screen by pressing , then press Menu 3 – 1 – 2 – 2. Don't pause for more than two seconds between key presses.



 **Note:** The number of main menus in your phone, determines whether you may need to press the 0 key  before you enter a shortcut that begins with "1" and is followed by the 1 key  and any other key(s). For example, to display the Inbox Menu (1 - 1 - 2), press Menu    .

Most menu items in your phone have a brief help message. To view the help message for a menu item, scroll to an item and wait for 10 seconds.

• LIST OF MENU SHORTCUTS

1 MESSAGES (0-1)



TEXT MESSAGES (0-1-1)

Write new* (0-1-1-1)

Inbox (0-1-1-2)

Outbox* (0-1-1-3)

Saved (0-1-1-4)

Erase (0-1-1-5)

VOICE MESSAGES (0-1-2)

Listen to voice messages (0-1-2-1)

Voice mailbox number (0-1-2-2)

WELCOME SCREEN (0-1-3)

MINIBROWSER MESSAGES* (0-1-4)

2 CALL LOG



MISSED CALLS (2-1)

RECEIVED CALLS (2-2)

DIALED CALLS (2-3)

CLEAR CALL LISTS (2-4)

All (2-4-1)

Missed (2-4-2)

Received (2-4-3)

Dialed (2-4-4)

CALL TIMERS (2-5)

Last call (2-5-1)

All calls (2-5-2)

Life timer (2-5-3)

Clear timers (2-5-4)

3 PROFILES



NORMAL* (3-1)

Select (3-1-1)

Customize (3-1-2)

SILENT (3-2)

MEETING (3-3)

OUTDOOR (3-4)

4 SETTINGS



CALL SETTINGS (4-1)

Automatic redial (4-1-2)

Calling card (4-1-3)

Anykey answer (4-1-4)

Minibrowser confirmation* (4-1-5)

PHONE SETTINGS (4-2)
Clock (4-2-1)
Alarm clock (4-2-2)
Touch tones (4-2-3)
Restore factory settings (4-2-4)
Language (4-2-5)
SECURITY SETTINGS (4-3)
Restrict calls (4-3-1)
Access Codes (4-3-2)
NETWORK SERVICES (4-4)
Voice privacy* (4-4-1)
Call forwarding** (4-4-2)
Call waiting** (4-4-3)
Send own caller ID with
next call** (4-4-4)
Network feature setting (4-4-5)
NAM selection (4-4-6)
NAM update* (4-4-7)
Automatic update
of service* (4-4-8)

5 SYSTEM*
AUTOMATIC (5-1)
HOME AREA (5-2)

6 GAMES
Snake II (6-1)
Space Impact (6-2)
Link5 (6-3)
Pairs II (6-4)

7 CALCULATOR

8 CALENDAR

9 MINIBROWSER*

10 KEYGUARD

* Availability may depend on your
service provider's specifications.
** This menu item will not appear
until the feature has been activated.



7) Enter text and numbers



Note: To enter characters quickly into a mobile message, see "Working with predictive text input" on page 65.

- **ENTER CHARACTERS
(EXCEPT IN A PHONE NUMBER FIELD)**

Use the following guidelines when entering characters into any field except a phone number field (for example, the Name field in your phone book, a note in your calendar, or a mobile message):

Enter letters

To enter a letter that appears on a key, press the key as many times as necessary until the letter appears. For example, to enter the letter "a", press **2abc** once. To enter the letter "c", press **2abc** three times.

Change letter case mode

To change the mode that controls whether letters you enter are uppercase (capital) **ABC** or lowercase **abc**, press the pound key **♂ #**.

Enter numbers

To enter one or just a few numbers, press the appropriate number key as many times as necessary until the number appears. To enter many numbers, it is easier to change to number entry mode (press and hold the pound key **♂ #**).

Erase characters

To erase one character, position the cursor to the right of the character, then press Clear. To erase all displayed characters, press and hold Clear.

Change between letter entry mode and number entry mode

To change between letter entry mode (**ABC** / **abc**) and number entry mode (123), press and hold the pound key **♂ #**.

Enter a space

To enter a space, press .

Enter special characters

To quickly enter one of the most common special characters, press  several times until the character appears. To see a list of all special characters, press . Scroll until the character you want to insert is highlighted, then press **Insert**. To move up and down quickly between rows of characters, press . To move quickly to the last character in the last row, press .

• ENTER CHARACTERS INTO A PHONE NUMBER FIELD

While entering numbers into a phone number field, press the star key  as many times as necessary until one of the following special characters appears:

- * Bypass an automated attendant.
- p Create a pause when a number is dialed. The numbers you enter after this special character are automatically sent as touch tones after a 2.5-second pause. For example, the characters after the "p" could be a PIN number that you are required to enter when you call the phone number.
- w Create a wait when a number is dialed. Your phone "waits" for you to press  before it sends the string of numbers as touch tones. The difference between "p" and "w" is that if you use "w", you can control when the touch tones are sent.

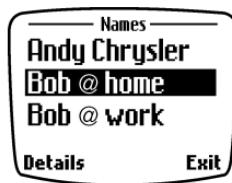
8) Use the phone book



Note: Your phone book stores up to 250 names with phone numbers. Numbers can contain 32 digits; names can contain 26 characters. You cannot store identical names in your phone book.

Example: You can't have one entry for your friend Bob with a home number and another entry with a work number. You need to store the names separately, as in the diagram to the right.

If you enter a name that's already in the phone book, the message Replace? appears, followed by the name. Press Back to end without replacing the name.



• USE PHONE BOOK MENUS

The phone book has several menus. These menus appear when you press Names. Use the scroll keys to move to the menu you want to use.

Search	Search for a specific name.
Add new	Enter new names and numbers.
Options	Choose a scrolling view and show the memory status.
1-touch dialing	Assign numbers to one-touch dial locations (speed dialing). See "Use one-touch dialing" on page 55.
Erase all	Erase all names and numbers. To erase one name and number at a time, while viewing the name press Details or Options. Scroll to Erase. Press Select.
Own number	Display your own phone number.

Change views

You can view your phone book in three different ways:

Name list	Shows all the names that are stored in your phone book. Three names appear on the screen at a time.
Name + number	Shows individual names and numbers. One name appears on the screen with its corresponding phone number. Name + number is the default setting.
Name only	Displays individual names. To view the phone number, press Details and scroll up or down.

In all views, use the scroll keys to move through the list of names.

Select a scrolling view

You can select the scrolling view that you prefer:

- 1 From the menu, press Names.
- 2 Scroll to Options. Press Select.
- 3 Highlight Scrolling view, and press Select.
- 4 Scroll until the name of the desired view appears. Press OK.

• ADD NAMES AND NUMBERS

You can add names and numbers to your names list:

- 1 Press Names.
- 2 Scroll to Add new, and press Select.
- 3 Using the keypad, enter the name. Use the  key to switch between upper and lowercase letters.
- 4 Press OK.
- 5 Enter the phone number. Press OK.

You can also enter numbers by using a shortcut from the Start screen:

1 Enter a phone number, and press **Save**.

2 Enter a name at **Name**.



Note: Step 2 is optional.

3 Press **OK**.

• CHANGE A STORED PHONE NUMBER

You can change a number without changing its associated name.

1 Press **Names**.

2 When **Search** appears, press **Select**.

3 Enter the first few letters of the name of the phone book entry you want to change, and press **OK**.

If you chose **Name only** or **Name list** as your scrolling view, continue to step 4. If you chose **Name + number** as your scrolling view, proceed to step 5.

4 Press **Details** to view the number.

5 Press **Options**.

6 If **Edit** is not highlighted, scroll to it. Press **Select**.

7 Press **OK**. The associated number appears. To move the cursor, scroll up and down. To erase one character, press **Clear**. To erase all characters, press and hold **Clear**.

8 Enter the new number, and press **OK**.

• RECALL AND REDIAL NUMBERS

You can recall and dial numbers using one of four methods.

To recall and dial a number:

1 At the Start screen, press or to display the names and associated numbers that are stored in your phone book.

2 Scroll to the appropriate name. Press  to dial the associated number.

OR

- 1** At the Start screen, press **Names**.
- 2** Enter the first few letters of the name you want to call.
- 3** When the appropriate name/number appears on the screen, press  to dial this number.

OR

- 1** At the Start screen, press **Names**.
- 2** At **Search**, press **Select**.
- 3** Enter the name of the person you want to call, and press **OK**.
- 4** When the appropriate name/number appears on the Start screen, press  to dial this number.

OR

- 1** Press  and scroll through the dialed calls list and press the **Talk** key again to dial the desired number

• ERASE STORED NAMES AND NUMBERS



Note: You cannot undo Erase functions, so be careful!

- 1** Using one of the methods described in "Recall and redial numbers" on page 25, recall the stored name and its associated number.
If you chose **Name only** as your scrolling view, continue to step 2.
If you chose **Name+number** as your scrolling view, proceed to step 3.
- 2** Press **Details**.
- 3** Press **Options**.
- 4** Scroll to **Erase**. Press **Select**. (**Erase?** appears).
- 5** Press **OK** to erase the name and associated number.

• ERASE THE ENTIRE PHONE BOOK

You can erase the contents of your phone book. Note that this action cannot be reversed! Once you have performed this procedure, all the stored information in your phone book is erased.

To erase all the contents of your phone book:

- 1** Press **Names**.
- 2** Scroll to **Erase all**. Press **Select**.
The message **Are you sure?** appears.
- 3** If you truly want to erase the entire contents of your phone book, press **OK**.
The **Security code** field appears.
- 4** Enter your security code, and press **OK**.

• CHECK MEMORY STATUS

You can check to see how many free and in-use memory locations are in your phone book:

- 1** Press **Names**, and scroll to **Options**. Press **Select**.
- 2** Scroll to **Memory status**. Press **Select**.

A message appears that says **Phone: xx free, xx in use**, where **xx** indicates the number of memory locations (phone book entries).

9) Use voice mail

Voice mail is a network services feature. Friends or coworkers who miss you when they call can leave a voice message, which can be retrieved later.

• RETRIEVE A MESSAGE

You will be notified when a voice message is received:

- Your phone beeps when you receive a voice message. The message **New voice message** appears on the screen, along with the icon.
- If you receive more than one voice mail message, your phone may display the number of messages that you received. This feature is dependent on your wireless network provider.



To use voice mail, you need to learn the voice mail system's various greetings, passwords, and prompts. Your service provider can furnish instructions.

• SET UP YOUR VOICE MAILBOX

As part of your network's voice mail feature, your service provider may give you a voice mailbox phone number. Save this number in your phone to make getting your voice messages quick and convenient.



Tip: Save yourself the trouble of entering the voice mailbox PIN code each time you dial your voice mailbox by using dialing codes. See "Automate your voice mailbox with codes" later in this section for more information.

- 1 Press Menu 01 - 2 - 2 (Messages > Voice messages > Voice mailbox number).
- 2 Enter your voice mailbox phone number.
- 3 Press OK.

Your voice mailbox number can be up to 32 digits long and is used until it's changed. Therefore, if your phone number changes, you may need to change your voice mailbox number along with it.

• LISTEN TO YOUR VOICE MESSAGES

The way you listen to your voice messages may vary depending upon your service provider. Call your service provider if you have any questions.

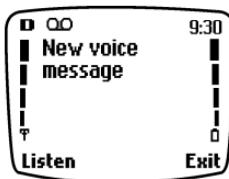
- 1 When your phone alerts you to new voice messages, press Listen and follow the instructions given on the phone.
- 2 If you prefer to listen to your messages later, press Exit.
- 3 To listen to your voice messages at a later time:

Press and hold the 1 key.

OR

Press Menu 0 -1 - 2 - 1 (Messages > Voice messages > Listen to voice messages).

The message Calling voice mailbox appears on the screen. Follow the prompts to access your messages.



Voice message notification

A caller who leaves a voice message can specify a priority level. This feature must be supported by the network.

- **New voice message** - This normal priority message can be sent by anyone.
- **Urgent message** - The person who sends an urgent message is requesting an immediate reply. Urgent messages can be sent by anyone.
- **Emergency message** - Can only be sent by a network operator or person in authority when life or property is threatened.

New voice message notifications overwrite older ones, regardless of the priority level. For example, if Emergency voice mail appears and you receive a new voice message of normal priority, the emergency message notification disappears and New voice message appears.

• AUTOMATE YOUR VOICE MAILBOX WITH CODES

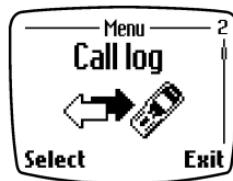
You can insert special codes into entries in your Phone book to automate tasks such as checking your voice mail. To do this, you'll need to save your voice mailbox number, PIN code, and the necessary pause and wait codes to a 1-touch dialing location (often assigned to the ). The special dialing codes, which are accessed using the , are as follows:

Special Dialing Codes	
*	Asterisk. Use this character to bypass a set of instructions
+	Plus symbol. Precedes an international telephone number
p	Pause. The phone pauses for 2.5 seconds, then automatically sends the tones (numbers) that follow it in the dialing string
w	Wait. The phone waits for you to press the Talk key before it sends the tones (numbers) that follow

10) Call log

The Call log (Menu 2) records information about the last 10 calls made, received, or missed:

- Phone number associated with the call
- Date and time when the call connected



The call log records the length of the most recent call you made or received, the total of all calls you made or received during a time period (Call timer).

NOTES

- The call log records missed calls only if the phone was on and in your service provider's area when you received the call.
- If you chose the **Forward if not answered** option in "Use call forwarding" on page 37, the call log records the call as missed.

• VIEW INFORMATION ABOUT RECENT CALLS

Use the menu shortcuts to display the type of recent call list to view:

- Missed calls - Menu 2 - 1
- Received calls - Menu 2 - 2
- Dialed calls - Menu 2 - 3

To view dialed calls, you can also press , then scroll.

Note: If necessary, scroll the list until the number (or name) appears. To call the number for the displayed item quickly, press .

- 1 Press Options, and scroll to the appropriate option:
 - Call time - Shows the date and time of day when the call was connected. (Appears only if the clock has been set.)
 - Edit number - Allows you to edit the number on the screen.

- **Save** – Allows you to add the phone number to your phone book.
- **Erase** – Allows you to erase the entry from the call log.
- **View number** – Allows you to view the associated phone number in your phone book. (Appears only if a name from your phone book appears on the screen.)

2 Press Select.

• **CLEAR THE RECENT CALLS LIST**

 **Note:** Logged calls that were cleared from a call list cannot be recovered.

- 1 Press Menu 2 – 4 (Call log > Clear call lists).
- 2 Scroll to All to clear the logged calls from all lists: Missed, Received, or Dialed.

 **Note:** When you clear the Dialed calls list, the list that appears when you press  and a scroll key is also cleared.

- 3 Press OK. If you chose All, enter your security code, then press OK. The logged calls are cleared from the chosen list(s).

• **VIEW THE DURATION OF CALLS**

View the duration of the last call

Press Menu 2 – 5 (Call log > Call timers). The duration of the last call appears. (If you choose to show the current call timer on the Start screen, you can see it during your call. To show it, see "Show/hide the current call timer" on page 33.)

 **Note:** The actual invoice for calls and services from your service provider may vary, depending upon network features, rounding-off for billing, taxes, and so forth.

View the total duration of all calls

Your phone uses two timers to record the total duration of all calls:

CALL TIMER

The call timer can be cleared (reset to zero), so it is useful for monitoring how much talk time you have used. It records the total time of all calls since the timer was last cleared. To view the call timer value:

- 1 Press Menu 2 – 5 (Call log > Call timers).
- 2 Scroll to All calls. The call timer value is displayed.

 **Note:** Your phone has a separate timer for each NAM assigned to your phone. The timer values apply to the currently-selected NAM.

LIFE TIMER

 **Note:** The actual time invoiced for calls by your service provider may vary, depending upon network features, rounding-off for billing, and so forth.

The life timer records the total duration of all calls for the entire life of your phone. This timer cannot be reset by you. To view the call timer value:

- 1 Press Menu 2 – 5 (Call log > Call timers).
- 2 Scroll to Life timer. The life timer value is displayed.

• CLEAR (RESET) THE CALL TIMER

 **Note:** After this call timer is cleared, the value cannot be recovered. Before you clear the call timer, record the value.

- 1 Press Menu 2 – 5 – 4 (Call log > Call timers > Clear timers).
- 2 Enter your security code, and press OK. The timer value is cleared.

• SHOW/HIDE THE CURRENT CALL TIMER

You can show the current call timer on the screen to view during a call.

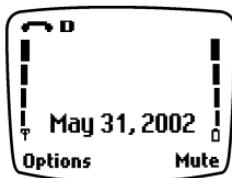
- 1 Press Menu 2 – 5 (Call log > Call timers).
- 2 Press Details, and press Select.
- 3 Scroll to On (show) or Off (hide). Press OK.

11) Use advanced calling features

• SET IN-CALL OPTIONS

Your phone allows you to use several features during a call. These features are in-call options.

 **Note:** Many in-call options are network services features that may require a subscription from your service provider.



You cannot use all options at all times. This section explains when you can use a certain option.

- 1 To access an option during a call, press **Options**.
- 2 Choose from some or all of the following options:

Touch tones	Allows you to enter a touch tone string manually or search for a string in your phone book.
New call	Allows you to place the call to the third party when making a conference call. See "Make a conference call" on page 37.
Menu	Allows you to access the Menu.
Mute	Allows you to mute the microphone. If your microphone is already muted, Mute will change to End mute .
Names	Allows you to access the phone book.

• USE NETWORK FEATURE CODES

Call forwarding, Call waiting, and Send own caller ID with next call are network services available through your service provider. When you subscribe to these services, your service provider gives you a feature code that you store in your phone to activate the service. Your service provider may have stored feature codes in your phone. A separate deactivation code is used to deactivate the service.

The network service name will not appear in the menu until you store the activation code. After you store the activation and deactivation codes, you can use the menu to activate and deactivate the service.

 **Note:** If your phone has more than one phone number programmed into the NAM, stored feature codes apply only to your primary phone number, or NAM 1.

Store network feature codes

- 1 Press Menu 4 - 4 - 5 (Settings > Network services > Network feature setting).
- 2 Enter the feature code (for example,    ), and press OK.
- 3 Scroll to the service name for that code, and press Select.

For example, enter the call forwarding feature code, scroll until the call forwarding option you want to select appears, then press Select.

Activate network features

 **Note:** Before you can activate a network feature, you must store the appropriate feature code in your phone.

- 1 Use the appropriate menu shortcut for the feature you want to activate (Settings > Network services > feature name):
 - Call forwarding - Menu 4 - 4 - 2
 - Call waiting - Menu 4 - 4 - 3
 - Caller ID - Menu 4 - 4 - 4
- 2 Scroll to Activate, and press OK.

The phone calls the network to confirm activation of the feature. After network confirmation, the feature is available for use.

Deactivate network features

- 1 Use the appropriate menu shortcut for the feature you want to deactivate (Settings - Network services - feature name):
 - Call forwarding - Menu 4 - 4 - 2
 - Call waiting - Menu 4 - 4 - 3
 - Caller ID - Menu 4 - 4 - 4
- 2 Scroll to **Cancel**, and press **OK**.

Your phone calls the network to confirm deactivation of the feature. After the network confirms deactivation, the feature is no longer available for use until you activate it again.

• USE CALL WAITING

During a call, if you receive another call, the call waiting feature causes your phone to beep. Before you can use call waiting, you must store the call waiting feature code and activate the feature. See "Use network feature codes" on page 35.

- To answer an incoming call, press .
- To switch from one call to another, press .
- To end both calls, press .

• USE CALLER ID

When Caller ID is active, your phone may display the caller's phone number. The caller's name may also display if their name and number has been stored in the phone book or if the wireless network supports it.

Call or **Call-caller ID unavailable** will display when the wireless network doesn't recognize the calling number. Also, **Call-caller ID blocked** may display if the calling party has blocked caller ID.

 **Note:** If you have stored a number more than once in your phone book, and that number is stored each time with a different name, then a name will not appear when someone calls from that number. See "Use the phone book" on page 23 for details on your phone book.

• MAKE A CONFERENCE CALL

You can add a third party to a call (conference call). During a call:

- Dial the phone number of the third party, then press , OR...
- Scroll to the third party's phone number in your phone book, then press , OR...
- Press **Options**. Scroll to **New call**. Press **OK**. Enter the phone number. Press **OK**.

When the third party answers, press  to connect all parties. To end the call with both parties, press .

To place one party on hold, press  again. (If you place a party on hold, you cannot rejoin all three parties in the same conversation.) If you press  a third time, the party you placed on hold rejoins the call, and the second party is placed on hold.

• USE CALL FORWARDING

You can forward incoming calls to another number. Call forwarding is a network services feature that may require a subscription through your service provider.

This procedure assumes that you stored the Call forwarding feature code in your phone and activated the feature. If you have not completed these steps, you may be able to enter the code manually when you forward your calls. Just enter the feature code (for example,    ) followed by the phone number where you will forward your calls, then press .

- 1 Press **Menu 4 - 4 - 2 (Settings > Network services > Call forwarding)**.
- 2 Scroll to the desired call forwarding option:
 - **Forward all calls** - Forwards all incoming calls.
 - **Forward if busy** - Forwards calls only when you're on your phone and do not have voice mail.

- **Forward if not answered** - Forwards calls if you don't answer. Use this option when you want to give your phone to someone for a short period of time, but you don't want them to answer the phone. For example, you could use this option if you give a family member the phone to take out, in case of an emergency, but you still want to receive any incoming calls made to this phone.
- **Forward if out of reach** - Forwards calls if you are out of the serving wireless network or if your phone is turned off.
- **Cancel call forwarding** - Cancels call forwarding.

3 Press Select.

4 If you chose an option other than **Cancel call forwarding**, enter the phone number where your calls are to be forwarded (or press **Search** to find the number in your phone book). Press **OK**.

Wait for your phone to call the network and confirm your choice. If your choice is confirmed, the feature is available for use.

• **REDIAL AUTOMATICALLY**

If you make a call and the line is busy because of problems in the wireless network, your phone can automatically redial the number three times. Press **Menu 4 - 1 - 2 (Settings > Call settings > Automatic redial)**. Scroll to **On**. Press **OK**. To stop a series of redialing attempts, press **Quit** or .

• **USE A CALLING CARD**

The calling card feature allows you to store calling card information in your phone, making it easy for you to make a calling card call quickly. Your phone can store information for four calling cards.

Determine the dialing sequence for your card

Before you store the calling card information in your phone, determine the dialing sequence for your calling card. This sequence should be printed on your card. If it is not, contact the calling card company:

- Access no. + phone no. + card no.
- Access no. + card no. + phone no.
- Prefix + phone no. + card no.

NOTES

- **Access no.** - This number is usually a 1-800 number that is listed on the back of the calling card.
- **Phone no.** - The phone number of the party you are calling.
- **Card no.** - The unique number for your card. The card may also specify that you enter a PIN number after your card number.
- **Prefix** - Any number(s) that must precede the phone number of the party you are calling.

Store calling card information in your phone

- 1 Press Menu 4 – 1 – 3 (Settings > Call settings > Calling card).
- 2 Scroll until the name of the card you want to enter or edit appears. By default, the card names are A, B, C, and D, but you can change the names. Press Options.
- 3 Scroll to Edit, and press OK.
- 4 Enter your security code, and press OK.
- Dialing sequence appears.
- 5 Press Select.
- 6 Determine the dialing sequence for your card. Scroll the list of dialing sequences until the one you want appears, then press Select.
- 7 When you are prompted, enter the information (access number, card number, or prefix number). After entering each number, press OK.
At the access number prompt, if your access number is entered in your phone book, press Search to retrieve it quickly.
- 8 When you finish entering the calling card information, Save changes? appears. Press OK.
- 9 Scroll to Card name, press Select, and enter a card name.
- 10 Press OK.

Choose a calling card to use

 **Note:** If information for only one calling card is stored in your phone, you are not required to choose a calling card.

- 1 Press Menu 4 - 1 - 3 (Settings > Call settings > Calling card).
- 2 Scroll until the name of the calling card appears, and press Options.
- 3 Scroll to Select, and press OK.
- 4 Enter your security code, and press OK.

The message Card ready for use appears.

Make a calling card call

 **Note:** This procedure may not apply to all calling card options. For more information, refer to your calling card or contact your calling card company.

- 1 At the Start screen, enter the phone number of the party you are calling. Include any necessary prefix, such as 0 or 1, that is specified by your calling card.
- 2 Press and hold  until the message Card call appears.
- 3 When the message Wait for tone, then press OK appears, listen for the tone from your calling card service, then press OK. When the message Wait for tone, press OK again appears, listen for the tone, then press OK.

• CHOOSE TO BLOCK CALLER ID

In most service areas, when you call someone, their caller ID system allows them to see your name and phone number. Your phone is set to allow this information to be seen automatically. Before you make a call, you can choose to block caller ID and prevent the recipient from seeing your name and phone number.

NOTES

- This feature works on a per-call basis, so you must perform this procedure before each call where you want to block caller ID.
- While roaming, you may not be able to block caller ID.

- The following procedure assumes that you have stored the **Send own caller ID** feature code in your phone and activated the feature. If you have not completed these two steps, you may be able to block caller ID manually. To block caller ID manually, enter the code (for example, .

- 1 Press Menu 4 – 4 – 4 (Settings > Network services > Send own caller ID with next call).
- 2 Highlight Yes (to show your number) or No (not to show your number). Press OK.
- 3 Enter the number you are calling (or press Search to retrieve the number from the phone book), and press OK. Press OK again.

Your phone makes the call and requests that the network block caller ID to prevent the recipient of your call from seeing your name and phone number.

• **SELECT A PHONE NUMBER**

You can use two different phone numbers with your phone. Each phone number is used for a different service area.

- When activating your phone, the service provider sets up your phone with account information (phone number and system information).
- However, your phone can be activated in up to two different service areas. For example, your phone could be activated in Dallas and New York. Each service area assigns a different phone number or account to your phone.

You must select a phone number for your home system. If you travel outside your home system, you can choose another number. Only one phone number can be active at a time.



Note: You may not need two numbers for your phone if your service provider has service or roaming agreements for each area where you use your phone. Contact your service provider for details.

Select the phone number

1 Press Menu 4 - 4 - 6 (Settings > Network services > NAM selection).

2 Scroll to the phone number you will use, and press OK.

 **Note:** The first phone number on this list is the currently selected number. You need at least one active number to make calls. You cannot change from one phone number to another during a call.

• SET TOUCH TONES

Touch tones are sounds produced when you press the phone keys. Sometimes, touch tones are called *DTMF tones*.

You can use touch tones for many automated services such as checking bank balances and airline schedules and using your voice mailbox. Touch tones can be sent only when a call is active.

Set manual touch tones

- 1 Press Menu 4 - 2 - 3 - 1 (Settings > Phone settings > Touch tones > Manual touch tones).
- 2 Select one of the following options, then press OK:

Continuous	The tone sounds as long as you press and hold a key.
Fixed	Sets the tone length to 0.1 second, regardless of how long you press a key.
Off	Turns off tones; no tone is sent when you press a key.

Set touch tone length

You can also set the length of each touch tone:

- 1 Press Menu 4 - 2 - 3 - 2 (Settings > Phone settings > Touch tones - Touch tone length).
- 2 Scroll to Short (0.1 second) or Long (0.5 second).
- 3 Press OK.

Store touch tone sequences (strings)

You store touch tone strings the same as you store names and numbers. You can store a digit sequence to send as touch tones.

STORE TOUCH TONE STRINGS WITH PHONE NUMBERS

- 1 Enter the phone number that you want associated with a touch tone.
- 2 Press w (wait) or p (pause) where needed.

w (wait): When you specify wait, your phone dials the number, then waits (because you chose w) for you to press Send. When you press Send, the phone sends your touch tone.

p (pause): If you include a p character, your phone pauses for 2.5 seconds, then automatically sends your touch tone.

- 3 Enter the touch tone string.
- 4 Store the number as you normally would.

SEND A TOUCH TONE STRING

- 1 Press Menu 4 - 2 - 3 - 1 (Settings > Phone settings > Touch tones -> Manual touch tones).
- 2 Verify that the setting is not set to Off. (If so, select a different option.) Press OK.
- 3 During your call, press Options. Scroll to Touch tones. Press OK.
- 4 Enter or recall the touch tone string from the phone book. Press OK.

12) Customize your phone

• UNDERSTAND PROFILES

A profile is a "group of settings" you can use to customize the way your phone works. You can set your preferences for these items:

- Ringing options
- Ringing volume
- Ringing tone
- Vibrating alerts
- Warning & game tones
- Message alert tone
- Screen saver

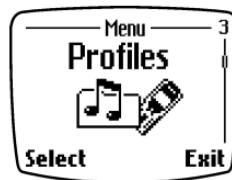
Your phone comes with seven profiles:

- Normal (default setting)
- Silent
- Meeting
- Outdoor
- Pager
- Handsfree (available only when used with a handsfree device)
- Headset (available only when used with headset)

You can customize any of the profiles. If at any time you want to return to the original settings, you can do so.

• SELECT A PROFILE

Quickly press **Power Key** . Scroll to highlight a profile. Press **OK**. (To select a profile, your phone cannot be connected to a handsfree device, and the Start screen must be displayed.)



• CUSTOMIZE A PROFILE

- 1 Press Menu 3 (Profiles).
- 2 Scroll to highlight a profile.



Note: The Handsfree and Headset profiles do not appear unless your phone has been connected to these accessories. If you connect your phone to a handsfree device, these profiles remain in the menu, unless you choose to restore your phone's factory settings.

- 3 Press Options to view the options for the selected profile.
- 4 Select one of the following options, then press OK.

Select	Activates the currently highlighted profile.
Customize	Enables you to customize a profile by changing the current settings. Press OK to choose from several lists.
Rename	Enables you to rename the profile. This option is not available for Normal, Headset, or Handsfree profiles.



Note: When you change a current profile setting, it affects only that profile. Your phone's normal settings do not change.

Set ringing options

You can choose the tone that notifies you of an incoming call. This setting does not change the alert tone for when you receive a mobile message.

- 1 Press Menu 3 (Profiles).
- 2 Scroll to the desired profile and press Options.
- 3 Highlight Customize, and press OK.
- 4 Scroll to Ringing options, and press Select.
- 5 Scroll to highlight the desired ringing option, then press OK.
 - Ring - This is the normal ring.
 - Ascending - The ringing volume increases (gets louder) with each ring.
 - Ring once - The phone rings once (helps prevent disturbing others).

- **Beep once** - The phone beeps once (helps prevent disturbing others).
- **Silent** - The phone makes no sound.

Set the ringing volume

You can set the default ringing volume for incoming voice calls and message alert tones.

- 1 Press Menu 3 (Profiles).
- 2 Scroll to the profile where you want to set the ringing volume. Press Options.
- 3 Highlight **Customize**, and press **OK**.
- 4 Scroll to **Ringing volume**, and press **Select**.
- 5 Scroll through the options. When you hear the volume level you wish to use, press **OK**.

 **Note:** As you scroll through the ringing options, you can listen to a sample of each. Although the sample for level 4 and level 5 are the same, ringing level 5 produces very loud ringing.

The ringing volume setting is stored individually for the handsfree device and the headset.

Set the ringing tone

You can set your phone's ringing tone to a specific sound—or tune—for incoming voice calls.

 **Note:** If you have already chosen a ringing option of either **Silent** or **Beep once**, the ringing tones are already turned off.

- 1 Press Menu 3 (Profiles).
- 2 Scroll to the profile where you want to set the ringing tones.
- 3 Press **Options**.
- 4 Highlight **Customize**, and press **OK**.
- 5 Scroll to **Ringing tone**, and press **Select**.
- 6 Scroll to the ringing tone you want to use, and press **OK**.



Set a vibrating alert

You can set your phone to vibrate when you receive a voice call. This feature is one of the settings in your phone's profiles:

- 1 Press Menu 3 (Profiles).
- 2 Scroll to the profile to set the vibrating alert. Press Options.
- 3 Highlight Customize, and press OK.
- 4 Scroll to Vibrating alert, and press Select.
- 5 Scroll to On, and press OK.

The phone does not vibrate if it is connected to or in a charging device.

Set keypad tones

You can set the volume of the tone you hear when you press the keys on your phone.

- 1 Press Menu 3 (Profiles).
- 2 Scroll to the profile for which you want to set the keypad tones. Press Options.
- 3 Scroll to Customize, and press OK.
- 4 Scroll to Keypad tones, and press Select.
- 5 Scroll to highlight the desired level (or Off), and press OK.

Set warning and game tones

You can set warning tones and game tones used in your phone:

Warning tones include the sounds for error conditions, confirmations, low battery, and need to recharge. *Game tones* are the sounds made during game play.

To turn warning tones on and off:

- 1 Press Menu 3 (Profiles).

Your phone lists each profile.

- 2 Scroll to the profile you want to change, and press Options.

- 3 Scroll to **Customize**, and press **OK**.
- 4 Scroll to **Warning and game tones**, then press **Select**.
- 5 Scroll to **On** or **Off** and press **OK**.

Set the message alert tone

You can set your phone to use a certain tone to indicate an incoming text message.

- 1 Press **Menu 3 (Profiles)**.
- 2 Scroll to the profile for which you want to set the message alert tone. Press **Options**.
- 3 Highlight **Customize**, and press **OK**.
- 4 Scroll to **Message alert tone**, and press **Select**.
- 5 Scroll through your choices. The phone plays a sample of each choice as you scroll to it.
- 6 When you find the tone you want, press **OK**.

• ACTIVATE AND CUSTOMIZE SCREEN SAVER

This option allows you to assign an animation to use as a screen saver when your phone is in idle mode. Your phone comes with five preloaded animations and an empty slot where you can store an additional animation of your choice. For more information on how to download animations for use as a screen saver or welcome graphic, contact your wireless service provider.



Note: Your phone enters idle mode only when no activity is taking place.

Activate screen saver

You can use a different animation for each of your five profiles. You can assign any of the five preloaded animations or you can download animations using your phone's minibrowser.

To assign an animation to a profile:

- 1 Press **Menu 3 (Profiles)**.

- 2** Scroll to the desired profile and select **Options**.
- 3** Select **Customize** and press **OK**.
- 4** Scroll to and select **Screen saver** and turn on the feature.
- 5** Select **Screen saver** again, scroll to **Screen saver** and press **Select**.
- 6** Scroll through the options, select the one you wish to use and press **OK**.

Whenever your phone is in idle mode, the screen saver will now be activated.

Customize screen saver

Each screen saver can also be customized by adjusting the **Timeout** and **Maximum time** settings.



Tip: Use of animated screen savers may decrease standby and talk times. To minimize impact on battery performance, use longer **Timeout** settings and/or shorter **Maximum time** settings.

ADJUST TIMEOUT SETTING

The **Timeout** setting allows you to determine how long the phone must be in idle mode before the screen saver is activated.

To adjust this setting:

- 1** Press **Menu 3 (Profiles)**.
- 2** Scroll to the desired profile and press **Options**.
- 3** Scroll to **Customize** and press **OK**.
- 4** Scroll to **Screen saver** and press **Select**.
- 5** Scroll to **Timeout** and press **Select**.
- 6** Select one of the options, which range from **After 5 seconds** to **After 10 minutes**.

ADJUST MAXIMUM TIME

The **Maximum time** setting determines how long a screen saver plays before the phone returns to idle mode. In idle mode, the screen saver is no longer active, however a static image from the animation remains on your phone's screen.

To adjust the maximum time setting:

- 1 Follow steps 1-4 above.
- 2 Scroll to **Maximum time** and press **Select**.
- 3 Choose one of the options, which range from **After 30 seconds** to **After 3 minutes**, and press **OK**.

View and save downloaded animations

When you receive a downloaded animation, a notification message will appear on your screen. You will then be prompted to **Save** or **View** the new animation.

VIEW DOWNLOADED ANIMATIONS

When you are prompted, select **View**. After viewing the animation, you will again be prompted to save it.

 **Note:** This feature is network dependent and must be supported by your service provider. Downloaded animations must be in GIF format.

SAVE DOWNLOADED ANIMATIONS

To save the screen saver, press **Save**. You will be prompted to save the animation as a **Welcome anim.**, **Screen saver** or **Both**.

If you do not wish to save the animation to your phone, press .

 **Note:** Your phone has only one empty slot for downloaded screen savers. If you have already downloaded a screen saver, it will be deleted when you download another screen saver.

Set your phone to answer automatically

You can set your phone to answer incoming voice calls after one ring while the phone is connected to an approved handsfree device.

 **Note:** The Handsfree profile will not appear in your phone until you have connected a handsfree device to your phone at least once.

- 1 Press **Menu 3 (Profiles)**.
- 2 Scroll to the **Handsfree** or **Headset** profile, and press **Options**.
- 3 Scroll to **Customize**, and press **OK**.

- 4 Scroll to Automatic answer, and press Select.
- 5 Scroll to On, and press OK.

Set the lights

While your phone is connected to a handsfree device, you can specify either of two settings for the lights:

- Lights on only when you use the phone
- Lights on the entire time the phone is connected to the device



Note: This feature works only after your phone has been connected to a handsfree device.

- 1 Press Menu 3 (Profiles).
- 2 Scroll to Handsfree profile, then press Options.
- 3 Highlight Customize, and press OK.
- 4 Scroll to Lights, and press Select.
- 5 Scroll to Automatic or On, and press OK.
 - Automatic - If no key is pressed, the lights go off after 30 seconds.
 - On - The lights stay on the entire time that your phone is connected to the handsfree device.

• RENAME PROFILES



Note: You cannot rename the Normal and Headset profiles.

- 1 Press Menu 3 (Profiles).
- 2 Scroll to the desired profile, and press Options.
- 3 Scroll to Rename, and press OK.
- 4 Enter the new name, and press OK.

• RESTORE FACTORY SETTINGS

You can change the default (factory) settings for your phone. Later, you can restore the original settings when needed.

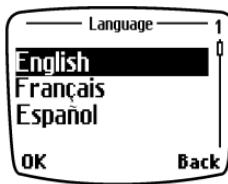
 **Note:** The memory, timers, language selection, security code, and lock codes are not reset. However, any profiles you modified are reset when you restore your settings.

- 1 Press Menu 4 - 2 - 4 (Settings > Phone settings > Restore factory settings).
- 2 Enter your security code, and press OK.

• CHOOSE A DISPLAY LANGUAGE

You can choose which language is displayed on your phone.

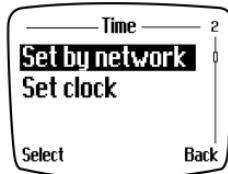
- 1 Press Menu 4 - 2 - 5 (Settings > Phone Settings > Language).
- 2 Select the language to use, and press OK.



• SET AND DISPLAY THE CLOCK

Your phone contains a real-time clock that can be set two different ways:

- To use the time and date provided by the wireless system
- To be set manually



You can display the time and date on the Start screen as described in "Set the alarm clock" on page 93.

Choose the format of the displayed time

You can choose to display the clock in 24-hour or am/pm format.

- 1 Press Menu 4 - 2 - 1 (Settings > Phone settings > Clock).
- 2 Scroll to Time format, and press Select.
- 3 Scroll to the desired time format (24-hour or am/pm). Press OK.

 **Note:** For am/pm format, a small square appears to the right of the displayed time. Square at top = am, square at bottom = pm.

Allow the network to set the clock

- 1 Press Menu 4 – 2 – 1 (Settings > Phone settings > Clock).
- 2 Scroll to Time settings, and press Select.
- 3 Scroll to Set by network, and press Select.

NOTES

- If you are outside your network and allow the network to set the clock, you will be prompted to set the clock manually. When you re-enter your network, the network automatically sets the date and time.
- If you are outside your network and you remove the battery (or battery becomes discharged), you will be prompted to set the clock manually when you install or recharge the battery.

Manually set the clock

By default, the clock is automatically set by the wireless network. You can override the network and set the clock manually.

- 1 Press Menu 4 – 2 – 1 (Settings > Phone settings > Clock).
- 2 Scroll to Time settings, and press Select.
- 3 Scroll to Set clock, and press Select.
- 4 Enter the current time.
For example, to enter 7:30, enter 0730. Press OK.
- 5 Scroll to am or pm, and press OK.

Display or hide the clock

- 1 Press Menu 4 – 2 – 1 (Settings > Phone settings > Clock).
Depending on the current setting, either Hide time/day or Show time/day will be highlighted.
- 2 Press Select.

• CUSTOMIZE WELCOME SCREEN

 **Note:** For information on downloading and saving animations, see "Save downloaded animations" above.

You can add an image or message that appears when you turn your phone on. To accomplish this:

- 1 Press Menu 01- 3 (Messages > Welcome screen).
- 2 Press Select. You will have three choices: Logo, Note or Animation.
- 3 Once you have selected the option you wish to use, press Select.

Use Logo as Welcome Screen

There is only one logo available for use with the startup screen. However, you may be able to download a replacement logo. To use the logo:

- 1 Press Menu 01 – 3 (Messages > Welcome screen).
- 2 Scroll to Logo and press Select.
- 3 Then select Activate.

Use Note as Welcome Screen

This option allows you to activate or create a customized note which will appear each time your phone is turned on. To activate a previous note or to type in a new note:

- 1 Press Menu 01 – 3 (Messages > Welcome screen).
- 2 Scroll to Note and press Select.
- 3 Choose Activate or Customize.
- 4 To activate a previously entered note, select Activate.
OR
- 5 To enter a new note or replace an existing note:
 - Select Customize
 - If no message has been entered previously, enter a message just as if you were entering an e-mail or other message.
 - To delete a previous note, press Clear until all characters are removed. You can then begin entering the new message.

After you enter the new message, you are prompted to save it. Once selected, the note will appear the next time you turn on your phone.

 **Note:** Welcome notes can have up to 36 characters.

USE ONE-TOUCH DIALING

You must store names and numbers before using one-touch dialing. You can assign a name from the phone book to one-touch dialing, using keys 2 through 9. When you press the key, the number is automatically dialed.



Note: The 1 key is used exclusively to dial your voice mailbox.

Assign a name or number to a one-touch dial key

- 1 Press Names and scroll to one-touch dialing.
- 2 Press Select.
- 3 Scroll to a number that has the message (empty), and press Assign.
- 4 Scroll to the name and number to which you want to assign this key. Press Select. Repeat these steps as many times as necessary.

To call a number using one-touch dialing, press and hold the appropriate key for a few seconds. The phone dials the number.

Change one-touch dialing numbers

After you have assigned a one-touch dialing number to a key, you can change key and number associations at any time.

- 1 Press Names.
- 2 Scroll to one-touch dialing, and press Select.
- 3 Scroll to the key you want to change, and press Options.
- 4 Scroll to Change, and press Select.
- 5 Scroll through the phone book.
- 6 When you reach the new number, press Select.

Erase one-touch dialing numbers

You can erase one-touch dialing key assignments at any time.

- 1 Press Names.
- 2 Scroll to one-touch dialing, and press Select.
- 3 Scroll to the key you want to erase, and press Options.
- 4 Scroll to Erase, and press Select.
- 5 Press OK.

• IDENTIFY CALLERS BY CUSTOM RINGING TONES

You can assign a ringing tone to an entry in your phone book, allowing you to identify the caller by the tone you hear when they call.

To use this feature, you must subscribe to the Caller ID service that is available from your service provider.

If a caller blocks Caller ID, your phone will use the **Normal** ringing tone instead of the custom tone. If the ringing option for the current profile is set to **Silent**, your phone will not ring with a normal tone or a custom tone.

Fifty of the entries in your phone book can have a custom tone assigned to them. Assign these custom tones with this procedure:

- 1 In your phone book, find the entry where you will assign the custom ringing tone.
- 2 Press **Details**, then **Options** (or, if the scrolling view for your phone book is set to **Name + number**, just press **Options**).
- 3 Scroll to **Custom tone**, and press **Select**.
- 4 Scroll through the ringing tones list until the desired tone is highlighted.
 - If you wait a moment while a tone is highlighted, your phone will play the tone.
 - To remove assignment of the custom tone from the entry, select **Default**.
- 5 Press **OK**.

• PRESS ANY KEY TO ANSWER A CALL

- 1 This feature allows you to answer an incoming call by pressing any key except the  or . The default setting for this feature is **On**. To enable or disable Anykey answer, press **Menu 4 - 1 - 4**.

13) Security

A security code, a phone lock feature, and a call restriction feature prevent unauthorized use of your phone. A keypad lock prevents unintended key presses, such as when your phone is in your purse or pocket.

• CHANGE YOUR SECURITY CODE



Important: The default security code is 12345. Nokia highly recommends that you immediately change this code, write down the new code, and store it in a safe place, away from your phone. You cannot activate or use certain phone features until you successfully enter your security code.

When you enter your security code, an asterisk (*) appears on the screen each time you press a number key, preventing others from seeing your code. If you enter the wrong code five times in a row, your phone won't accept any entries for the next 5 minutes.

- 1 Press Menu 4 – 3 – 2 – 4 (Settings > Security settings > Access codes > Change security code).
- 2 Enter the security code. (The default code is 12345.) Press OK.
- 3 Enter a new code (minimum of five numbers). To prevent accidental emergency calls, don't pick a code that is similar to an emergency number. Press OK.
- 4 To verify your new security code, enter it again. Press OK. The message **Security code changed** appears. Store your new code in a safe place, away from your phone.

• PROTECT YOUR PHONE WITH PHONE LOCK

You can lock your phone to prevent others from using it. When someone tries to use it, they will be required to enter a lock code.



Tip: If you save an unlocked phone number, you can make calls to that number without entering the lock code.



Important: The default lock code is 1234 (or the last four digits of your phone number, depending on your service provider).

Nokia highly recommends that you immediately change this code, write down the new code, and store it in a safe place, away from your phone.

When you enter your lock code, an asterisk (*) appears on the screen each time you press a number key, preventing others from seeing your code.

If you enter the wrong code five times in a row, your phone will prompt you for the security code.

Lock and unlock your phone

- 1 Press Menu 4 – 3 – 2 – 1 (Settings > Security settings > Access codes > Phone lock).
- 2 Enter the lock code, and press OK.
- 3 Scroll to On (lock) or Off (unlock). Press OK. If you choose to lock your phone, it will be locked when you switch it off. When you turn it back on, you must enter the lock code before you can use the phone.



Note: When the phone is locked, emergency calls may be possible (for example, 911, or other official emergency number). (See "Make an emergency call" on page 101.)

Store an unlocked phone number

If you store an unlocked phone number, you can make calls to that number without entering the lock code.

- 1 Press Menu 4 – 3 – 2 – 2 (Settings > Security settings > Access codes > Unlocked phone number).
- 2 Enter the lock code. Press OK. The Number field appears.
- 3 Enter a phone number (or press Search to find the number).
- 4 Press Options.
- 5 Scroll to Save, then press OK.

Call an unlocked phone number

- Press or once, then , OR...
- At the Start screen, enter the phone number. Press .

Answer a call while the phone is locked

Press any key except  or .

Change your lock code

- 1 Press Menu 4 – 3 – 2 – 3 (Settings > Security settings > Access codes > Change lock code).
The message Enter lock code appears.
- 2 Enter the lock code. (The default lock code is 1234, or the last four digits of your phone number, depending on your service provider.) Press OK.
- 3 Enter the new lock code. Only numeric characters are accepted. To prevent accidental emergency calls, don't enter a code that is similar to an emergency number.
- 4 Press OK.
- 5 Verify the new lock code, and press OK. Store your new code in a safe place, away from your phone.

• USE KEYGUARD TO LOCK THE KEYPAD

The Keyguard feature lets you lock the keypad to prevent accidental key presses while your phone is in a pocket or purse. If you press a key while Keyguard is activated, a message appears: Press Unlock and then *.



Note: When Keyguard is on, it may be possible to make emergency calls (for example, 911, or other official emergency number). Key in the emergency number and press . The number is displayed only after you have keyed in its last digit.

Activate keyguard

- Press and hold  until Keys locked  appears. (If you do this during a call, the call will end.), OR...
- At the Start screen, press Menu , OR...
- At the Start screen, press Menu 1 – 0, OR...
- At the Start screen, press Menu. Scroll to Keyguard, and press Select.

Deactivate keyguard

- Press **Unlock.**, then  OR...
- Press and hold  until **Unlock keys?** appears. Press **OK**.

Answer a call while keyguard is active

- Press  OR...
- If Anykey answer is set to **On**, press any key except  or . (During an incoming call, Keyguard is automatically deactivated. When you end the call, Keyguard is automatically activated again.)

NOTES ABOUT KEYGUARD

- When you connect your phone to a handsfree device other than a headset, keyguard is automatically deactivated. When disconnected from the device, it is automatically activated.
- Before you turn off your phone, you must deactivate Keyguard.
- While Keyguard is active, press the  to switch the lights on quickly for 30 seconds.

• RESTRICT CALLS

You can restrict incoming and outgoing calls. To restrict outgoing calls, you create a list of restrictions and apply the appropriate restriction.

For outgoing calls, only one restriction option is available:

Add restriction, which enables you to create your own list of outgoing call restrictions. The maximum number of call restrictions you can define is ten.

After you have used the **Add restriction** option to add at least one restriction, the following options are then available:

- **Select**: Allows you to set call restrictions from the outgoing calls list.
- **Edit**: Allows you to edit an existing outgoing call restriction.
- **Erase**: Erases any existing outgoing call restrictions.

The **All calls** option cannot be erased; therefore, this option does not appear in the list of restrictions to be deleted.

 **Note:** When calls are restricted, emergency calls may be possible (for example, 911 or other official emergency number). You may be able to make the call manually by entering the emergency number and then pressing .

Restrict outgoing calls

- 1 Press Menu 4 – 3 – 1 (Settings > Security settings > Restrict calls).
- 2 Press Select.
- 3 Enter your security code, and press OK.
- 4 Scroll to Add restriction, and press OK.
- 5 Enter the number you want to restrict, and press OK.

For example: If you want to restrict all calls that begin with 1, enter 1. This will restrict all outgoing long distance phone calls. If you want to restrict all calls that begin with 972, enter 972, and so forth.

After you perform step 5, the Name field appears.

- If you want to add a name for the call restriction, enter the name using your phone's keypad. Press OK.
- If you don't want to add a name, simply press OK.

Restrict incoming calls

To restrict incoming calls:

- 1 Press Menu 4 – 3 – 1 (Settings > Security settings > Restrict calls).
- 2 Scroll to Restrict incoming calls, and press Select.
- 3 Enter your security code, and press OK.
- 4 Scroll to All calls, and press Mark.

Press Unmark to remove an already-set restriction.

- 5 Press Back.

The Save changes? message appears.

- 6 Press Yes.

Press No if you do not want to save the changes.

14) Select System

The **System** menu (Menu 5) allows you to customize the way your phone chooses a system in which to operate while you are "roaming" (using your phone outside your primary or "home" system). Your choice of a system affects the type and amount of charges you incur. By default, your phone is set to automatically search for the most cost-effective system while roaming. If your phone can't find a preferred system, it uses a system based on the option you choose in the System menu.

 **Note:** Before selecting an item in the System menu, contact your service provider to find out how your selection will affect your service charges.

Roaming

Roaming occurs when you use your phone outside its home area. While roaming, another service provider's system handles your call. While roaming, the word **Roaming** and the roaming indicator (▲) appear on the Start screen.

System choices

If you have more than one phone number (NAM), your choice affects only the currently selected number. Select Menu 5 and select from the following:

- **Home area:** Your phone cannot roam. This means you can make and receive calls in your home area only. While roaming, **No Service** appears and you will not be able to make or receive calls.
- **Automatic:** Your phone searches for the most cost-effective system and will roam if a home area system is unavailable.

 **Note:** System choices may differ, depending on service provider.

15) Send and receive text messages

When you have mobile (text) messaging service, you can receive messages on the screen and send messages to e-mail addresses and phone numbers.



Note: Before you send or receive mobile messages, you may need to subscribe to the messaging service offered by your service provider. Some networks may not support mobile messaging.

The message types vary by service provider. Your phone automatically creates the types of messages supported by your service provider:

- **Text:** A text message can include text and a call-back number.
- **Number only:** A number-only message is like a numeric page. A call-back number (the sender's phone number) appears on the recipient's pager or phone screen.

A message contains both a header and the body. The header may have the sender's phone number or e-mail address and the date and time of the message. If you have a phone book entry that matches the sender's phone number, the sender's name also appears. The body contains the main part of the message. If you receive a message sent by e-mail, the subject (title) may appear at the beginning of the message body.

• ABOUT WRITING MESSAGES

Traditional or Predictive Input

You can write text messages with standard input or predictive text input.

- **Traditional (multitap) input method:** This is the default mode. This method requires that you press some keys more than once (multitap). For example, to enter the letter c, you must press  three times. See "Enter characters (except in a phone number field)" on page 21.
- **Predictive text input method:** In the predictive text mode, your phone "guesses" which word you are entering. This mode requires that you press a key only once for each letter you enter.



Note: To learn more about using Predictive Text when creating messages, see "Working with predictive text input".

Write a new message

- 1 Press Menu 01 – 1 – 1 (Messages > Text messages > Write new).
If Text and Number only appear in a list of menu items, scroll to Text, press Select, and go to the next step.
If these items are not on your menu, proceed to the next step.
- 2 You may address your message or write it first and address it later.
 - To address your message, scroll to Add e-mail or Add number, then press Select.
 - To begin writing your message, scroll to Edit message, then press Select. The terms writing and editing refer to the process of entering text into a text message.

After you have written your message, you can:

- Address and send it.
- Save the message in the Outbox and address and send it later.

(Press Options, scroll to Save, then press Select.)

Enter text into a message

A counter in the top right corner of the screen indicates the number of remaining characters that you can enter into your message.



Caution: While editing a message, if you accidentally press and hold Clear, all text within your message will be deleted.

To exit the message editor at any time without saving your text, press Options, scroll to Exit, then press Select.

1	. , @ ' ? ! -1	7	PQRS7
2	ABC2	8	TUV8
3	DEF3	9	WXYZ9
4	GHI4	0	Enters an empty space or 0
5	JKL5	*	Special characters
6	MNO6	#	Changes letter case; long press toggles between ABC/abc & 123 mode

Change the text input method

To switch (toggle) between predictive and traditional text input modes while you are editing a message, press the Pound key  several times until the icon indicates the mode you want to use. You must activate predictive text before you will be able to toggle between the two modes.



Tip: If you don't want to use predictive text input mode at all, deactivate it. You can reactivate it later.

• WORKING WITH PREDICTIVE TEXT INPUT

The predictive text feature is based on a built-in dictionary to which you can add words. Your phone includes several different language versions of this dictionary. Although your phone can display a given language on the screen, it may not have a predictive-text dictionary of that same language. By default, your phone is set in the traditional text input mode. Before you can use the predictive text input method, you must first activate the predictive text mode.

Activate predictive text mode

Predictive text mode is active when the predictive text icon  is present at the top of the screen. If the icon does not appear, predictive text mode has been deactivated.

To activate the predictive text mode while editing a message:

- 1 Press Options.
- 2 Scroll to Predictive text.
- 3 Press Select.
- 4 Scroll until the language you want appears, then press OK.

Deactivate predictive text mode

To return to the traditional text input mode, you must deactivate the predictive text input mode:

- 1 While editing a message, press Options.
- 2 Scroll to Predictive text. The language list displays.

- 3 On the language list, scroll to **Prediction off** and press **OK**. Your phone is now in traditional (multitap) mode.
- 4 You can also use multitap on the pound key (#) to go to traditional text in a message.

Add words to the dictionary

- 1 If the ? character appears after the word, press **Spell**, or at any time while you are editing, press **Options**, scroll to **Insert word**, then press **Select**.
- 2 Enter the word using traditional text input, and press **OK**. If the dictionary is full, the new word replaces the oldest added word.

Change the dictionary language

You can change the dictionary language while you are editing a message:

- 1 While editing a message, press **Options**.
- 2 Scroll to **Predictive text**, then press **Select**.
- 3 Scroll to a language, then press **OK**. The selected language is active.

• WRITE WITH PREDICTIVE TEXT INPUT

Enter words

- 1 Press each key only once for each letter of the word. For example, to write **hello**, press **4 - 3 - 5 - 5 - 6**. The characters that you enter appear underlined. The word changes after each keystroke, so only check the word after you press all the appropriate keys.
- 2 When you finish the word, check to make sure that the word is correct.
- 3 If the word is correct, enter a space (press ) and write the next word.
- 4 If the word is incorrect and is underlined, press  repeatedly until the desired word appears. OR, press **Options**, scroll to **Matches**, then press **Select**. Your phone shows a list of words. Choose a word from the list, then press **Use**, or press **Back** to exit and return to the message editor.

- 5 If the ? character appears after the word, there are no more words in the dictionary that correspond to your key presses. At this point, you can add the word to the dictionary by pressing Spell.

Writing compound words

To write a compound word quickly (for example, *bluejay*):

- 1 Write the first part of the word (*blue*).
- 2 Press  (do not enter a space). The underline disappears from the first part.
- 3 Write the second part of the word (*jay*).

Deleting characters

When you need to delete characters use one of these methods:

- To delete one character to the left of the cursor, press Clear.
- To delete all characters in the message, press and hold Clear.

Changing letter case modes

You can switch (toggle) between uppercase **ABC** and lowercase **abc** letter mode by pressing .

If the predictive text mode is active and you don't wait at least 1.5 seconds between key presses, the text input mode will also be switched between traditional and predictive text.

If predictive text mode is active when you create a new message, the first letter of the first word that you enter will be uppercase.

Entering numbers

When you enter numbers, use either of these methods:

- For one or a few numbers, press and hold the respective number key.
- For many numbers, change to number entry mode **123** (press and hold the Pound key ) and enter the numbers as usual.

Inserting special characters

- To insert a special character (such as a punctuation mark), press and hold the Star key , or press Options, scroll to Insert symbol, then press Select.
- To insert a period (.) quickly, press . To insert double hyphens (--) quickly or three dots (an ellipsis...), press  a few times.

Templates

A template is a predefined, commonly used sentence that you can quickly insert into a message:

- 1 While you are editing a message, press Options.
- 2 Scroll to Add template, then press Select.
- 3 Scroll to the template you want to use. For example:
 1. Call me at []. <phone number/time/place-
 2. I'll call you at []. <time/place-



Note: Templates are available in English only.

Brackets ([]) in a template represent a value that you can specify. The value is not retained for future use; you enter the value each time you use the template. If you select a template that contains brackets, you will be prompted to enter a value. You can edit the template text after you insert it into your message.

• RECEIVE A MOBILE MESSAGE

When you receive a mobile message, the mobile message icon  appears and **Message received** (or **New emergency message**) displays. If you have a message alert tone set, a tone may sound.

When you receive notification, you can:

- 1 Press **Clear** to dismiss the notification and read the message later from your **Inbox**.

OR

Press **Read** to read the message now.

The **Inbox** opens with the new message selected.

If **No space: message waiting** or a similar message appears, your phone's memory is full. You must make room for the message. Press **Read** again.

If necessary, scroll to read the entire message.

- 2 At the end of the message, scroll further to view the sender's name or phone number and the date and time the message was received.

When you've seen the last new message, the  icon disappears.

• MESSAGE OPTIONS

While reading a message, you have several options. Some of these options may not be available for some types of messages:

Erase deletes the message. Press **OK** to confirm the deletion or **Clear** to cancel.

Reply allows you to send a return message to the sender.

Save sends the message to the **Saved** folder.

Use number allows you to call quickly or save a phone number included in the message. If more than one number was included, a list of numbers displays.

To save the number:

- Read the message and scroll until the number you want to save is visible.
- Press **Options**, scroll to **Use number**, and press **Select**.

If one phone number appears on the screen, press **Call** (or press , then **Save**).

If a list of numbers appears, scroll to a number, press **OK**, then press **Call** (or press , then **Save**).

Save address extracts one or more e-mail addresses from the message (if it contains any) and allows you to save the addresses in your phone book.

Forward allows you to send the message to another recipient. For more information about forwarding a message, see "*Forward a message*" on page 76.

Reply w/copy allows you to send a message back to the sender. Your message will include a copy of the message you received.

• MESSAGE STORAGE

Your phone can store about 80 messages. All folders share the memory, so the actual number of stored messages depends on the message length. Three folders store your messages:

- **Inbox:** All messages that you received and have not erased or saved.
- **Outbox:** Messages that you sent or created and saved to send later.
- **Saved:** Messages that you saved from the **Inbox** or **Outbox**.

If the memory is full when you receive a mobile message:

- **Non-emergency Message:** The oldest sent message in the **Outbox** folder is deleted. Drafts or unsent messages are not deleted. If there are no sent messages in the **Outbox** folder, the oldest read message in the **Inbox** folder is deleted. If there are no read messages in the **Inbox**, **No space: message waiting** or a similar message appears. This message prompts you to delete messages from one of the folders. The network resends the message later.
- **Emergency Message:** An emergency message, sent only by a network operator, follows the procedure for a non emergency message and adds an additional safeguard. For the emergency message, other messages in the **Inbox**, **Outbox**, and **Saved** folders may also be automatically deleted if your phone's memory is full.

• CREATE A TEXT MESSAGE

Address a text message

Use this procedure to address your message to one or more recipients:

- 1 You must be editing the message that you want to address:
 - If you are in Edit message, press **Options**, then go to the next step.
 - If you are not in Edit message (for example, you wrote the text message and saved it to send later), open the **Outbox** (Menu 0 - 1 - 1 - 3). Scroll to the message you want to address. Press **Options**. Scroll to **Resend**. Press **Select**. Go to the next step.
- 2 Scroll to **Add e-mail** (to add an e-mail address) or **Add number** (to add a phone number), then press **Select**.
- 3 Enter the e-mail address or phone number, then press **OK**.

Notes about addresses

- You can address a text message to as many as 10 e-mail addresses, phone numbers, or a combination of both. To see a list of all recipients to whom your message is addressed, scroll to **List recipients**, then press **Select**.
- The maximum number of characters allowed in a phone number is 32. The maximum number of characters allowed in an e-mail address is 48.
- While entering a phone number or e-mail address, press and release **Clear** to delete one character, or press and hold **Clear** to delete all characters.
- If a recipient's e-mail address or phone number is in your phone book, you can quickly enter it by searching for the recipient's name. To search, press **Search**. To jump to an entry in your phone book quickly, press the appropriate key. For example, if the entry is **John (j)**, press **5 jkl**. To jump to **Kim (k)**, press **5 jkl** twice. If an e-mail address or phone number is not associated with the entry that you select, a message will appear: **No e-mail address found** or **No numbers found**.

- When entering an e-mail address manually, you can quickly enter the @ symbol by pressing  repeatedly until the @ symbol appears.



Note: To address a number-only message, see "Send a number-only message" later in this section.

• SEND A MESSAGE

This procedure assumes that you have addressed your text message and entered some text into it (or have entered a callback number). Before you send your message, you can select one or more options. While you're editing the message, press **Options**, scroll to **Settings**, then press **Select**. To select an option, **Mark** it. To deselect an option, **Unmark** it.

- **Urgent:** Sets the priority level of your message to "urgent". Urgent message or a similar notification will appear on the screen of the recipient's phone or other device.
- **Delivery note:** When the recipient receives your message, the network will send you a delivery note. If you address the message to more than one recipient, you will receive a separate delivery note for each recipient.
- **Callback no.:** Allows you to enter a phone number at which the recipient can call you.

After you mark and unmark the options, press **Back**. The message **Save changes?** appears. To accept the changes that you made to the settings, press **Yes**. To discard the changes, press **No**.

To send the message, press **Options**, scroll to **Send**, then press **Select**. If the network can't send your message, a warning note should appear. Try to resend the message later.

Message delivery notification

When you send a message, you can ask to be notified when the message is received. This notification is called a delivery note. When the recipient gets your message, the network sends you a delivery note. You will receive a separate delivery note for each recipient.



Note: When sending messages via the SMS network service, your phone may display the words "Message Sent". This is an indication that the message has been sent by your phone to the message center number programmed into your phone. This is not an indication that the message has been received at the intended destination. For more details about SMS, check with your service provider.

Urgent mobile messages

You can assign an urgent priority level to a mobile message. When you receive an urgent mobile message, **Urgent** appears in the message header. When you send an urgent mobile message, a similar notification appears on the recipient's phone or other device if it supports this feature.

There are four ways to create a text message:

- Write a new, blank message
- Reply to a received message
- Resend a message
- Forward a message

Send a number-only message

To create a text message, see "Create a text message" on page 71. For information about types of messages, see "Send and receive e-mail messages" on page 77.

Press Menu 0 – 1 – 1 – 1 (Messages > Text messages > Write new).



Note: If Text and Number only appear in a list of menu items, scroll to Number only, then press Select.

Use the following guidelines when addressing your message and specifying a callback number:

- Use **Add number** to specify a recipient's phone number. The maximum number of characters allowed in a phone number is 32.
- When prompted to enter a recipient's phone number, you can manually enter it or search for it.

- When searching, the list of entries in your phone book is displayed. To jump to an entry quickly, press the appropriate key. For example, if the entry is John (j), press **5 jkl**. To jump to Kim (k), press **5 jkl** twice.
- You can address your message to as many as 10 recipients. You can see a list of recipients who will receive your message (List recipients).
- You can create a message, save it in your **Outbox**, then address it and send it later (Save).

The callback number (Callback no.) is the phone number at which you want the recipient to call you. When prompted to enter a callback number, the default callback number (your mobile phone number) may appear in the field. You can use this number or enter a different number.

Resend a message

- 1 Open your **Outbox** (Menu 0 – 1 – 1 – 3). Scroll until the message you want to resend is highlighted.
- 2 Press **Options**. Scroll to **Resend**. Press **Select**.
 - Before you resend your message, you can edit it. You can also edit the recipients list (Add e-mail, Add number, or List recipients).
 - Settings (Urgency, Delivery note, and Callback no.) for the message are kept unless you edit them (Options > Settings).
- 3 To send the message, press **Options**, scroll to **Send**, then press **Select**.

• ERASE MESSAGES

You can erase the message you're reading or several messages at once.

Erase the current message

Press **Options**, scroll to **Erase**, then press **Select**.

Erase multiple messages

- 1 Press Menu 0 – 1 – 1 – 5 (Messages > Text messages > Erase).

- 2 Scroll until the message is highlighted, then press **Select**. Depending on your service provider, you may need to confirm your choice or enter your security code to prevent accidental deletion of messages.
 - **All read:** Erases all read messages in the **Inbox** (unread messages are not erased); erases all messages in the **Outbox** and **Saved** folders (these folders cannot contain unread messages).
 - **All in inbox:** Erases all messages (read or unread) in the **Inbox**.
 - **All in outbox:** Erases all messages (sent or unsent) in the **Outbox**.
 - **All saved:** Erases all messages in the **Saved** folder.

• REPLY TO A MESSAGE

- 1 Read the message to which you want to reply.
 - If you just received the message and the **Start** screen is currently displayed, press **Read**.
 - If the message is in the **Inbox** folder, press **Menu 0 - 1 - 1 - 2**.
 - If the message is in the **Saved** folder, press **Menu 0 - 1 - 1 - 4**.
- 2 Scroll to the message, press **Read**, and then press **Options**.
- 3 Scroll to **Reply** (or **Reply w/ copy** if you want to include a copy of the original message in your reply).

If you reply with copy, your message could be long. In some networks, a long message is shortened and the recipient may not see all of it.

- 4 Press **Select**.

After you write your message, you can:

- Address and send it.
- Save the message in the **Outbox**, and address and send it later (press **Options**, scroll to **Save**, then press **Select**).

• FORWARD A MESSAGE

- 1 In the **Inbox** or **Saved** folder, read the message that you want to forward.
- 2 Press **Options**, scroll to **Forward**, then press **Select**.
- 3 Prepare your message as you would any other message that you create.
 - If the message you are forwarding is a text message, you can edit the message before you send it.
 - If your phone is configured to be able to send a number-only message, you can forward a callback number as a number-only message, provided the original message was also a number-only message.
- 4 After you prepare your message, you can:
 - Address it, then send it.
 - Save it to the **Outbox** (press **Options**, scroll to **Save**, then press **Select**), then address it and send it later.

16) Send and receive e-mail messages

You can use your phone to send and receive e-mail messages. You no longer need to be at your computer to send or receive messages. The e-mail feature is not available from all service providers.

• **SAVE E-MAIL ADDRESSES**

You can add an e-mail address to a name you've already saved in the phone book. You can also add a name and address as a new entry.

Save an e-mail address for an existing name

- 1 At the Start screen, press Names, then at Search, press Select.
The Names box opens.
- 2 Enter the first two letters of the name you want to find. Press OK.
- 3 Press Options (or press Details then Options if the Name list view is selected in your phone book), and scroll to E-mail address. Press Select.

The e-mail address box opens.

- 4 Enter the address.
Press  once for a dot (.). Press  repeatedly until the @ appears. Press OK when you see the correct character.
- 5 When you finish entering the address, press OK.

The message Saved appears briefly, confirming your action.

Add a new e-mail address

- 1 At the Start screen, press Names. Scroll to Add new. Press Select.
The Names box opens.

- 2 Enter the name. Press **OK**.
The **Number** box opens.
- 3 Enter the phone number. Press **OK**.
The message **Saved** appears briefly, confirming your action.
- 4 Press **Options**, scroll to **E-mail address**. Press **Select**.
The **e-mail address** box opens.
- 5 Enter the address. Insert special characters such as the "dot" and @ signs by pressing .
- 6 Press **OK**.
The message **Saved** appears briefly, confirming your action.

Edit an e-mail address

- 1 At the Start screen, press **Names**, then at **Search**, press **Select**.
The **Names** box opens.
- 2 Enter the first two letters of the name you want to find. Press **OK**.
- 3 Press **Options** (or press **Details** if the **Name** list view is selected in your phone book), and scroll to **E-mail address**. Press **Select**.
The **e-mail address** box opens.
- 4 Enter any changes, using the scroll keys to move the insertion point backward and forward in the address.
- 5 When the address is correct, press **OK**.
The message **Saved** appears briefly, confirming your action.

• SEND AN E-MAIL MESSAGE

- 1 At the Start screen, press **Menu 01 - 1 - 1 (Messages > Text messages > Write new)**
- 2 Scroll to **Add e-mail**. Press **Select**.
The **e-mail address** box opens.

- 3 Enter the e-mail address, or press **Search**.
 - If you press **Search**, enter the first few letters of the name you want. Press **OK** when you find the name. The address appears in the Recipient address box. Press **OK**.
 - The phone lists all the names from your phone book. If you select a name for which there is no e-mail address, your phone displays the message, **No e-mail address for this name**.
 - If you enter the e-mail address, press **OK** when you've finished. You are returned to a blank screen.
- 4 Press **Options** and scroll to **Edit message**.
- 5 When the message screen appears, enter your message.

 **Note:** The maximum number of characters for message length varies; check with your service provider for details.

You can turn on predictive text input if you wish. For information, see *"Working with predictive text input" on page 65*.

- 6 When you finish the message, press **Options**, select **Send**.
A status message tells you the mail is being sent.

• REPLY TO OR FORWARD AN E-MAIL MESSAGE

- 1 If the message is not on the screen, press **Menu 0 - 1 - 1 - 1** (**Messages > Text messages > Inbox**).
- 2 Select the desired message and press **Read**.
- 3 Press **Options**. Scroll to **Forward** or **Reply** and press **Select**.
- 4 If forwarding, enter the e-mail address when prompted and press **OK**.
- 5 Enter the message text and press **Options**.
- 6 Scroll to **Send** and select.

17) Minibrowser

 **Note:** This feature is available only if your service provider's network supports wireless internet access. Your service provider may also require that you subscribe to this additional service. For more information, contact your service provider.

• ABOUT THE MINIBROWSER

 **Note:** Your phone must be switched on to use this function. Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.

The Minibrowser lets you browse the internet for information such as stock quotes and weather. Browsing via the phone is not like browsing using a PC. Site providers usually present only the critical aspects of their site to wireless phone users, so they have removed most graphics.

When you start the Minibrowser and connect to a network, two icons appear on the screen:

-  • Minibrowser icon (you are in a Minibrowser session)
-  • Active call icon (you are being billed accordingly)

After a certain period of inactivity, the Minibrowser disconnects from the network. For this reason, you may find that you are billed for several network connections within a single session.

When the Minibrowser disconnects from the network, the active call icon () disappears, but the Minibrowser icon () remains. While you are in the Minibrowser you can still access pages stored in memory without being connected to the Internet. However, if you navigate to a page that is not stored in memory, a new Minibrowser session begins and you'll be billed accordingly.



Note: The information or services you have accessed are stored in the cache of your phone. A cache is a buffer memory, which is used to store data temporarily. If you have tried to access or have accessed confidential information requiring passwords (for example, your bank account), empty the cache of your phone after each use.

• LAUNCHING THE MINIBROWSER

The first time you launch the Minibrowser, you go through a security setup process that takes 3 to 5 minutes (follow the on-screen prompts).

- 1 From the start screen, press **Menu**, then scroll to **Minibrowser**. The following message appears to remind you that you may be billed for the connection time. (You can disable this message. See "Disable minibrowser confirmations" on page 85.)

Browsing may incur charges. Continue? (Yes) (No)

- 2 Press **Yes**. After a few seconds, the **Home Page** appears followed by a list of links to other sites. (Your menu may vary according to your service provider.)

Home Page

- 1 **News**
- 2 **Yahoo!**
- 3 **Weather**
- 4 **Finance**
- 5 **Web site**



Note: To end a Minibrowser session, press and hold

• MINIBROWSER MENU

While in the Minibrowser, press and release

to display the Minibrowser menu:

- **Help** - Show a help page for the current site (accessible from some pages).
- **Home** - Return to the Home page.
- **Bookmark page** - Set a bookmark for the current page.

- **Show URL:** Show the web address (Uniform Resource Locator) for the current page.
- **Restart:** Return to the Home page and delete all stored pages.
- **Version:** Show the version of Minibrowser software.
- **Advanced:** Change server and encryption settings.
- **Exit Minibrowser:** Exit the Minibrowser.
- **Switch off!**: Turn off the phone.

About web page content

The following items may appear on web pages:

- numbered options (some options may not be numbered)
- links (embedded in content)
- input fields for text or numbers
- simple text

• NAVIGATING IN THE MINIBROWSER

SCROLL THROUGH THE MENUS AND CONTENTS OF A PAGE

Press the scroll keys ( and ) to scroll through the menus and contents of a page and to see the content of pages that do not fit on one screen. To scroll quickly, press and hold the scroll key.

GO BACK (PREVIOUS PAGE)

To go back to a previous page, press .

GO TO THE HOME PAGE

- Press  repeatedly to move back through previously viewed pages until the Home Page appears.
- OR, press and release the Power key  to display the Minibrowser menu, scroll to Home, then press OK.

ACTIVATE AN ITEM (FOR EXAMPLE, A LINK)

- Press the appropriate number key on your phone's keypad (if the item on the page is numbered).
- OR, scroll to the item, then press the appropriate selection key (for example, to activate a link).

SELECTION KEYS

Use the selection keys to navigate to different screens or select special functions. The function of each selection key can change with each page and depends on each highlighted item.

-  (Left selection key) - Usually selects the highlighted item, but its function may change depending on what you are doing.
-  (Right selection key) - Usually selects a secondary option or displays a menu of secondary options.

• LINKS

Links usually appear as items in a numbered list. When activated, a link may:

- Take you to another page or site
- Make a phone call (Some sites support this feature. When you make the call, the browser connection terminates, but the page you were viewing is stored in memory. After you end the call, the page you were viewing is displayed again and you can continue browsing.)

To activate a link:

- 1 Move the cursor until the desired link is highlighted.
- 2 Press the appropriate selection key. (If the link is a phone number, in some cases, you can also press  to make the call.)

• BOOKMARKS

You can set a bookmark for a web page so that you can quickly go to that page later. (You may also be able to set bookmarks via a personal account at your service provider's web site.)

SET A BOOKMARK

- 1 Go to the page for which you want to set a bookmark.
- 2 Press and release the Power key . The Minibrowser menu appears.
- 3 Scroll to **Bookmark page**, then press **Select**. (A message may appear asking you to confirm this action.)

GO TO A BOOKMARKED PAGE

- 1 From the **Home Page**, scroll to **Bookmarks**, then press **Select**. A list of your bookmarks appears.
- 2 Select the bookmark that represents the page you want go to, then press **Select**.



Tip: A number is associated with each bookmark in the bookmark list. To quickly go to a bookmark, press and hold the appropriate number key.

• RECEIVING MESSAGES VIA THE MINIBROWSER

Depending on your service provider, you may be able to receive messages via the Minibrowser. The procedure you use to read a Minibrowser message varies depending on your service provider. For more information, contact your service provider. (This information may also be available at your service provider's web site.)

• ENDING THE MINIBROWSER SESSION

- Press and hold .
- OR, Display the **Home Page** (If the **Home Page** is not currently displayed, press  repeatedly until it is displayed.) Press . **Exit Minibrowser?** appears. Press **Exit**.
- OR, press and release the Power key . Select **Exit Minibrowser**.

• **DISABLE MINIBROWSER CONFIRMATIONS**

You can specify whether or not you want your phone to confirm your choice to connect to the web or exit the Minibrowser session.

- 1** Press Menu 4 – 1 – 5 (Settings > Call settings > Minibrowser confirmations). The following options appear:
 - **Both**: Your phone prompts you to confirm your choice before connecting to the web and before exiting the Minibrowser session.
 - **None**: Your phone never prompts you to confirm your choice.
 - **On connection**: Before connecting to the web, your phone prompts you to confirm your choice.
 - **On exit**: Before exiting the Minibrowser session, your phone prompts you to confirm your choice.
- 2** Scroll to the appropriate option, then press **OK**.

 **Tip:** To prevent unintentional exiting of the Minibrowser session (such as when pressing repeatedly to move back through previously viewed pages), select **Both** or **On exit**. This will ensure that a confirmation message appears before exiting.

 **Note:** If you press and hold , the Minibrowser session ends without confirmation, regardless of the Minibrowser confirmation setting.

18) Use your personal assistant

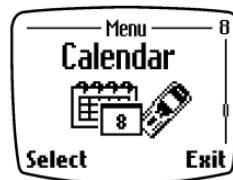
Your phone can be your personal assistant. It can wake you up in the morning, or remind you of meetings, birthdays, and tasks. Check the current time and calculate a tip at dinner. It's a calendar, clock, alarm clock, calculator, and phone book – everything you need to keep track of your life.

 **Note:** Your phone must be switched on to use these functions. Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.

• USE THE CALENDAR

The calendar keeps track of birthdays, meetings, or calls you need to make.

The calendar can sound an alarm to remind you to make a call or go to a meeting.



 **Note:** Unlike the alarm clock, if your phone is turned off, it will not automatically wake up and sound the alarm for a calendar note. For the alarm to sound for a calendar note, your phone must be turned on.

View the calendar

To view the calendar, press Menu 8 (Calendar). You may be prompted to set the date and time.

- Set the date using the mm/dd/yyyy format.

For example, if the date is May 31, 2002, enter 05312002. Existing characters are overwritten.

- Set the time using the mm:hh format.

For example, if the time is 7:00, enter 0700. Existing characters are overwritten. If your phone is set to display the am/pm time format, scroll to am or pm. Press OK.

Move from day to day

- Use the scroll keys to move through the calendar, OR...
- Press Options, scroll to Go to date, and press Select. Enter the date, and press OK.

Create a calendar note

This option lets you create a note with one of four categories: Reminder, Call, Meeting, or Birthday. You can set an alarm for any calendar note.

- 1 Go to the day you want, and press Options.
- 2 Scroll to Make note, and press Select.
- 3 Scroll to the type of note you want to create (Reminder, Call, Meeting, or Birthday). Press OK.

REMINDER

The Subject field appears.

- 1 Enter the information, and press OK. The current date appears.
 - If you want to change the date for this reminder, do so. Press OK.
 - If you do not want to change the date, press OK.The message Set alarm for the note? appears.
- 2 To answer the Set alarm for the note? question, press Yes or No.
 - Press No to specify no alarm. Calendar note saved appears.
 - If you press Yes, the Alarm date field appears.
- 3 Enter the date on which you want the alarm to sound, and press OK.
- 4 Enter the time when you want the alarm to sound. Use the hh:mm format. Press OK.
- 5 Select either am or pm, and press OK.

The message Calendar note saved appears.



Note: Step 5 appears only if you have selected the am/pm format.

CALL

The Number field appears.

- 1 Enter a number or press Search and find the number, then press OK. The Date field appears.
- 2 Enter the date when you need to make this call, and press OK. The Time field appears.
- 3 Enter the time when you need to make this call. Using the hh:mm format. Press OK.
- 4 Select am or pm, and press OK. Set alarm for the note? appears.
 **Note:** Step 4 appears only if you have selected the am/pm format.
- 5 To answer the Set alarm for the note? question, press Yes or No.
 - If you don't want to set an alarm, press No.
 - The message Calendar note saved appears.
 - If you press Yes, the Alarm date field appears.
- 6 Enter the date when you want the alarm to sound, and press OK. The Alarm time field appears.
- 7 Enter the time (hh:mm format) for the alarm to sound. Press OK.
- 8 Select am or pm, and press OK. Calendar note saved appears.
 **Note:** Step 8 appears only if you selected the am/pm format.

MEETING

The Subject field appears.

- 1 Enter the information, and press OK.
The current date appears. To use the current date, just press OK.
The Time field appears. You may enter a different date, and press OK.
- 2 Enter the time when you need to go to this meeting using the hh:mm format. Press OK. Select am or pm. Press OK. Set alarm for the note? appears.
 **Note:** Step 2 appears only if you selected the am/pm format.

- 3 Answer the Set alarm for the note? question, press Yes or No.
 - If you do not want to set an alarm, press No.
 - The message **Calendar note saved** appears.
 - If you press Yes, the **Alarm date** field appears.
- 4 Enter the date when you want the alarm to sound, and press OK.
The **Alarm time** field appears.
- 5 Enter the time when you want the alarm to sound. Use the **hh:mm** format. Press OK.
- 6 Select either am or pm, and press OK.

 **Note:** Step 6 appears only if you selected the am/pm format.

The message **Calendar note saved** appears.

BIRTHDAY

The **Name** field appears.

- 1 Enter the name of the person having a birthday, and press OK.
The **Date** field appears.
- 2 Enter the month and day of the person's birthday, and press OK.
The **Year of birth** field appears.
- 3 Enter the year using the **yyyy** format. Press OK. Set alarm for the note? appears.
- 4 Press Yes or No.
 - If you don't set an alarm, **Calendar note saved** appears.
 - If you press Yes, the **Alarm date** field appears.
- 5 Enter the date when you want the alarm to sound, and press OK.
The **Alarm time** field appears.
- 6 Enter the time for the alarm to sound. Use **hh:mm** format. Press OK.
- 7 Select either am or pm, and press OK. **Calendar note saved** appears.

 **Note:** Step 7 appears only if you selected the am/pm format.

View the day's notes

To view your notes for a given day, display that day in the calendar.

- 1** Press Options.
- 2** Scroll to View day notes.
- 3** Press Select.

If you have more than one note for the day, scroll the list. You have several Options:

- Erase - Erase the note.
- Edit - Edit the note.
- Move - Move the note to a different date.

View all notes

To view all notes in your calendar, press Options. Scroll to View all notes. Press Select. If your calendar has more than one note, scroll the list.

Erase notes

You must choose which notes to erase. Select from these erase options:

ERASE THE NOTE YOU'RE VIEWING

Press Options. Scroll to Erase. Press OK.

ERASE THE NOTES FOR A GIVEN DAY

While viewing the day in your calendar, press Options. Scroll to Erase notes and press Select. Scroll to Of chosen day, and press OK. Scroll the list of notes. When a note you want to erase appears, press Erase.

ERASE ONE NOTE AT A TIME FOR EACH NOTE IN YOUR CALENDAR

While viewing any day in your calendar, press Options. Scroll to Erase notes. Press Select. Scroll to One by one., and press OK. Scroll the list of notes. When a note you want to erase appears, press Erase.

ERASE ALL NOTES IN YOUR CALENDAR

To erase all notes in your calendar while viewing any day in your calendar:

- 1 Press Options.
- 2 Scroll to Erase notes.
- 3 Press Select.
- 4 Scroll to All at once, and press OK.

When a calendar alarm goes off

- To shut off the alarm, press OK.
- To shut off the alarm for 10 minutes, press Postpone. The alarm can be postponed 10-minute increments for up to 90 minutes.

Set the calendar date

- 1 Press Options.
- 2 Scroll to Set the date.
- 3 Press Select.
- 4 Enter the date using the mm/dd/yyyy format.

For example, if the date is May 31, 2002, enter 05312002. Existing characters are overwritten.

- 5 Press OK.

• DOWNLOAD RINGING TONES

Depending on your service provider, you can download (over the air) ringing tones and save them in your phone.



Note: Methods for downloading ringing tones vary with service providers. Some allow you to send a ringing tone to the phone from Internet web pages. Contact your service provider for details.

The names of tones that you download and save appear in the list that appears when you press Menu 3 - 1 - 2 - 3 (Profiles > Normal > Customize > Ringing tone).

The list also appears if you press Menu 3 - 2 - 2 - 3, Menu 3 - 3 - 2 - 3, etc., when you want to customize a profile other than the **Normal** profile.

In addition to the 40 default ringing tones that come with your phone, you can save 10 downloaded ringing tones.

Notification of received ringing tone

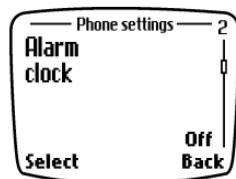
When a ringing tone has been downloaded to your phone, the message **Ringing tone received** appears.

- To listen to the tone, press **Options**, scroll to **Playback**, then press **OK**. The phone plays the tone. To stop playing the tone, press **Quit** or .
- To discard the tone immediately after you receive it (before you press **Options**), press **Exit** or .
- Or, to discard the tone after you have pressed **Options**, scroll to **Discard**, then press **OK**.
- To save the tone after you listen to it, scroll to **Save**, then press **OK**. If space in your phone's memory exists for the tone, the phone prompt asks if you want to put the tone in a space. If you choose to put it in a space, the tone at first will be called **Personal**. If space does not exist, scroll until the name of the tone you want to replace is highlighted, then press **Replace**. To view the list of tones, press **Menu 3 - 1 - 2 - 3** (or **Menu 3 - 2 - 2 - 3**, etc.).

• ALARM CLOCK

The alarm clock operates off the phone clock. If you turn your phone off after you set the alarm, it will automatically wake up and sound the alarm at the specified time. The alarm volume is determined by the current ringing volume and tone settings.

If you selected the **Silent** or **Meeting** profile or the **Beep once** or **Silent** ringing option, your alarm will quietly beep once. The best profile to use with the alarm clock is **Normal** or **Outdoor** unless you modified their original settings or renamed them. Your phone will vibrate if you've activated this feature in the current profile.



Set the alarm clock

- 1 Press Menu 4 – 2 – 2 (Settings > Phone settings > Alarm clock).
The Set alarm time message appears.
- 2 Enter the alarm time.
For example, to set the alarm for 7:00, press    . Existing characters are overwritten.
- 3 Press OK. If the time format is am/pm, scroll to am or pm, and press OK.
The Alarm on message appears. On the Start screen, the alarm icon () appears, indicating that the alarm is set.

Turn off the alarm clock when it rings

When the alarm clock rings:

- Press Stop to turn it off. If the phone was off when the alarm sounded, the phone asks if you want to keep the phone on. Press Yes or No.
- Press Snooze to set the alarm to go off again in 10 minutes.

If you don't turn off the alarm, it sounds for one minute. Ten minutes later it will sound again for one minute. This continues until you press Stop.

If the alarm time is reached while the phone is switched off, the phone switches itself on and starts sounding the alarm tone. If you press Stop, the phone asks whether you want to activate the phone for calls. Press No to switch off the phone or Yes to make and receive calls.

 **Note:** Do not press Yes when wireless phone use is prohibited or when it may cause interference or danger.

Turn off the alarm clock altogether

If you never use the alarm, turn it completely off. Press Menu 4 – 2 – 2 (Settings > Phone settings > Alarm clock). Scroll to Off and press OK.

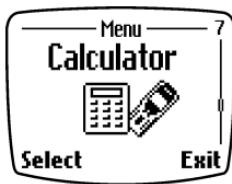
• CALCULATOR

→ **Note:** Your phone must be switched on to use this function. Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.

The calculator adds, subtracts, multiplies, and divides.

- 1 Press Menu 7 (Calculator).
- 2 Enter the first number in the equation.
(To enter a decimal point, press . To clear one digit, press Clear. To clear all digits, press and hold Clear.)
- 3 Enter the symbol: (+ add), (- subtract), (* multiply), or (/ divide):
 - Press  as many times as necessary, OR...
 - Press Options. Scroll to Add, Subtract, Multiply, or Divide. Press OK.
- 4 Enter the second number in the equation.
- 5 Calculate the result:
 - Press , OR...
 - Press Options. Scroll to Equals. Press OK.

→ **Note:** This calculator has a limited accuracy and rounding errors may occur, especially in long divisions.



19) Games



Note: Your phone must be switched on to use this function. Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.

Your phone includes four games: Snake II, Space Impact, Link5 and Pairs II.

- 1 Press Menu 6 (Games).
- 2 Scroll until the name of the game you want to play is highlighted. Press Select.
- 3 Scroll to the appropriate menu item. Press Select, and depending on which game you select, the following options may appear:
 - New game - a new game
 - High scores - Display the top score
 - Options - Allows you to modify game options, like difficulty
 - Instructions - Learn how to play the game
 - Continue - Return to a game in progress

• SNAKE II

Feed the snake with as many goodies as possible and watch it grow. Use keys , , , and  to turn the snake toward the food. The longer the snake's tail grows, the higher your score. You can choose to have a clear field, or select from five different mazes. If the snake runs into its own tail or the surrounding wall, the game is over.

• SPACE IMPACT

Use your weapons to survive alien attacks. When you defeat all the enemies, you progress to the next level. Use  and  to move up and down,  and  to move left and right. Key  or  fires the main weapons, and key  or  fires bonus weapons.

• **LINK5**

Play against the phone as you try to be the first to create an unbroken line of five tiles – vertically, horizontally or diagonally. Use the **1_{ao}**, **2_{abc}**, **3_{def}**, **4_{ghi}**, **5_{mno}**, **6_{7pqrs}**, **8_{tuv}** and **9_{wxyz}** to move the cursor in the corresponding direction. Insert a new tile by pressing **5_{jkl}**.

• **PAIRS II**

Uncover pictures to find pairs, but use as few tries as possible. In Time trial, you must find all the pairs before the bomb explodes. Move the cursor with keys **2_{abc}**, **4_{ghi}**, **5_{mno}**, **6_{7pqrs}**, and **8_{tuv}**. Press **5_{jkl}** to reveal the pictures. To advance to the next level, you must match all the pairs before the dynamite fuse runs out.

20) Reference information

• BATTERY, CHARGERS, AND ACCESSORIES

This section provides information about the phone's battery, accessories, and chargers. Be aware that the information in this section is subject to change as the battery, chargers, and accessories change.

This phone is intended for use when supplied with power from an ACP-7, an ACP-8, ACP-12, LCH-8, or an LCH-9. Other usage could invalidate any approval given to this apparatus and might be dangerous.



Warning: Use only batteries, chargers, and accessories that have received approval from the phone's manufacturer. The use of any other type of phone-related hardware will invalidate any approval or warranty applying to the phone, and could also be dangerous. For availability of approved batteries, chargers, and accessories, check with your dealer.

- When the battery is fully charged, the indicator will tell you that the battery is fully charged.
- When you are not using a charger, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging could shorten its life span. If left unused, a fully charged battery will discharge itself over time.

Temperature extremes can affect the ability of your battery to charge; allow it to cool down or warm up before trying to charge it.

When the battery is running out of power and your phone only has a few minutes of talk time remaining, a warning tone sounds and the **Battery low message** appears briefly. When no talk time is left, a warning tone is sounded and the phone switches itself off.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes direct connection of the + and - terminals of the battery (metal strips on the battery) for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C (59°F and 77°F).

A phone with a hot or cold battery might not work temporarily, even if the battery is fully charged. Batteries' performance is particularly limited in temperatures below 0°C (32°F).

The following list provides a guideline that you can follow:

- When the operating time (talk time and standby time) is noticeably shorter than normal, buy a new battery.
- Use the battery only for its intended purpose.
- Never use any charger or battery that is damaged or worn out.
- Dispose of batteries according to local regulations, for example, recycling. Do not dispose of as household waste.
- When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.

• **IMPORTANT SAFETY INFORMATION**

Traffic Safety

Do not use a hand-held telephone while driving a vehicle. Always secure the phone in its holder; do not place the phone on the passenger seat or where it can break loose in a collision or sudden stop.

Remember road safety always comes first!

Operating environment

Remember to follow any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger.

Use the phone only in its normal operating positions.

Electronic devices

Most modern electronic equipment is shielded from radiofrequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

PACEMAKERS

Pacemaker manufacturers recommend that a minimum separation of 20 cm (6 inches) be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers:

- Should always keep the phone more than 6-8 inches (20 cm) from their pacemaker when the phone is switched on
- Should not carry the phone in a breast pocket
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, switch off your phone immediately.

HEARING AIDS

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider.

Other medical devices

Operation of any radio transmitting equipment, including cellular phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your phone in health care facilities when any regulations posted in these areas instruct you to do so.

Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles (for example, electronic fuel injection systems, electronic antiskid/antilock braking systems, electronic speed control systems, air bag systems). Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

POSTED FACILITIES

Switch your phone off in any facility where posted notices so require.

Potentially explosive atmospheres

Switch off your phone when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch off the phone when at a refuelling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants, or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats; chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

Vehicles

Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty which may apply to the unit.

Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.

Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.

For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

FCC regulations prohibit using your phone while in the air. Switch off your phone before boarding an aircraft. The use of wireless telephones in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

Failure to observe these instructions may lead to suspension or denial of telephone services to the offender, legal action or both.

• EMERGENCY CALLS



Important: This phone, like any wireless phone, operates using radio signals, wireless and land line networks as well as user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. Therefore, you should never rely solely upon any wireless phone for essential communications (for example, medical emergencies).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.



Caution: If the battery is almost fully discharged when you connect a charger to your phone, it might be necessary to wait a few minutes before you will be able to make an emergency calls.

If you're playing a game, using the calculator, or editing (such as when using the Minibrowser or editing a phone book entry), press  to return to the Start screen before you make an emergency call.

Make an emergency call

- 1 If the phone is not on, switch it on. Check for adequate signal strength.
- 2 Press  as many times as needed (for example, to exit a call, to exit a menu) to clear the display and ready the phone for calls.
- 3 Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
- 4 Press .

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your wireless phone may be the only means of communication at the scene of an accident - do not end the call until you have permission to do so.

Keep your phone in emergency call mode until emergency personnel arrive on the scene. In emergency call mode, some menu items may not be available. To exit emergency call mode, at the Start screen, press **Exit**. When the question **Restore normal service?** appears, press **OK**.

• CARE AND MAINTENANCE

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfill any warranty obligations and to enjoy this product for many years:

- Keep the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store the phone in dusty, dirty areas. Its moving parts can be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When it warms up (to its normal temperature), moisture can form inside and may damage electronic circuit boards.
- Do not attempt to open the phone other than as instructed in this guide. Nonexpert handling may damage it.
- Do not drop, knock, or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone.

- Do not paint the phone. Paint can clog the moving parts and prevent proper operation.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate regulations governing radio devices.
- All of the above suggestions apply equally to your phone, battery, charger or any accessory. If any of them are not working properly, take them to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

• ACCESSORIES

If you want to enhance your phone's functionality, an extensive range of accessories is available for you. You can select any of these items to help accommodate your specific communication needs. For availability of these and other accessories, contact your service provider.

A few practical rules for accessory operation:

- Keep all accessories out of reach of small children.
- When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.
- Check regularly that any vehicle-installed accessories are mounted and are operating properly.
- Installation of any complex car accessories must be made by qualified personnel only.
- Before changing the cover, always switch off the power and disconnect the phone from the charger or any other device. Always store the phone with the covers attached.



Check the model number of any charger before use with this device. This device is intended for use when supplied with power from the Nokia ACP-7, ACP-8 and ACP-12 chargers.



Warning: Use only Nokia Original Accessories or batteries, chargers and accessories approved by Nokia for use with this Nokia phone model. The use of any other types may invalidate any approval or warranty applying to the phone, and may be dangerous. For availability of approved accessories, please check with your authorized Nokia dealer.

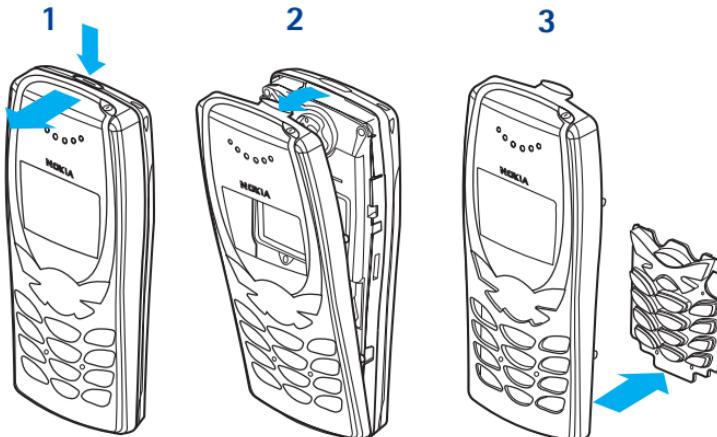
• NOKIA XPRESS-ON™ COVERS

Your phone's Xpress-on covers are available in several colors and styles. Extra covers may be purchased from your authorized Nokia dealer.

- Before changing the cover, always switch off the power and disconnect the phone from the charger or any other device.
- Always store the phone with the cover attached.
- Read carefully the instructions in 'Care and maintenance'.

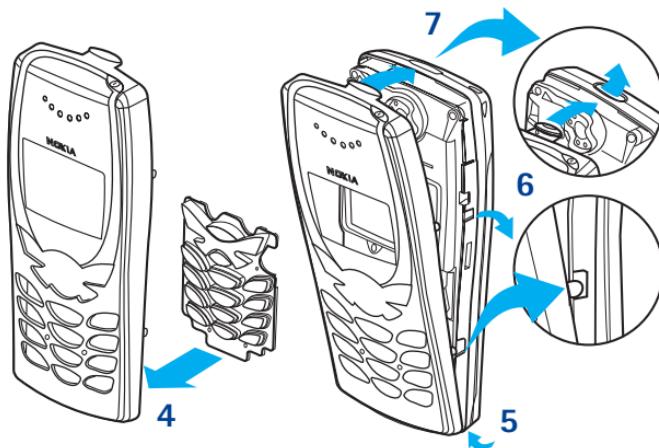
Remove the cover

- 1 Press the locking catch of the cover. Use a coin or other small tool if necessary.
- 2 Start to open the cover from its upper part.
- 3 Remove the keymat from the cover.



Replace the cover:

- 4 Insert the keymat in the new cover.
- 5 Place and close the catch in the lower part of the cover into the corresponding hole in the phone.
- 6 Gently close the whole cover.
- 7 Insert the locking catch of the cover into the phone body.



• BATTERY

This section provides information about the phone's battery. Be aware that the information in this section is subject to change.

 **Note:** Dispose of used batteries in accordance with local regulations.

Charging times

 **Note:** Times are approximate. When the battery is charged, the battery scroll bars on your phone's screen stop scrolling. To obtain 100% charge, allow another two hours to "trickle-charge" the battery.

Battery option	ACP-7	ACP-8	ACP-12
BLB-2 Li-Ion battery 830 mAh	3 hrs 50 min	2 hrs 45 min.	2 hrs 10 min

Standby and Talk Times

Battery option	Talk time	Standby time
BLB-2 Li-Ion battery 830 mAh	Up to 3 hrs	Up to 5.5 days

Battery talk and standby times are estimates only and depend on signal strength, network conditions, features used, battery age and condition (including the effect of charging habits), temperatures to which battery is exposed, use in digital mode, and many other factors. Please note that the amount of time a phone is used for calls will affect its standby time. Likewise, the amount of time that the phone is turned on and in standby mode will affect its talk time.

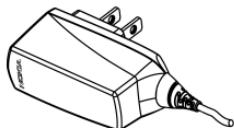
• CHARGERS AND OTHER ACCESSORIES

This section provides information about the phone's chargers and accessories. Be aware that the information in this section is subject to change as the chargers and accessories change.

The chargers and accessories that are described in this section are available for your phone. Contact your dealer for details. Also, refer to the accessories brochure that was included in your sales package for the entire line of Nokia Original Accessories.

Rapid Travel Charger (ACP-12)

This lightweight AC charger can be used with all battery options. To use the charger, plug it into a standard 120V AC wall outlet, and connect the lead from the charger to the base of your phone. Calls can be made during charging, even with a fully discharged battery

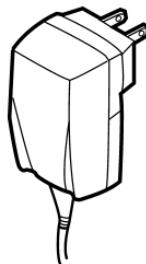


The charger can also be used together with the optional Compact Desktop Charging Stand (DCH-8).

Rapid Travel Charger (ACP-8)

This lightweight (110g) AC charger can be used with all battery options. Calls can be made during charging, even with a fully discharged battery.

To use the Rapid Travel Charger (ACP-8), plug it into a standard 120V AC wall outlet, and connect the lead from the charger to the base of your phone.



Rapid Mobile Charger (LCH-9)

You can charge your phone's battery from your vehicle battery by using the Rapid Mobile Charger (LCH-9).

Calls are possible during charging. A green light indicates the charger is ready for charging (when not charging) or finished charging (if it has been charging). The battery charging times are the same as those for the Rapid Travel Charger (ACP-8).



The input voltage range is from 11 to 32V DC, negative grounding. Avoid prolonged charging with the Rapid Mobile Charger (LCH-9) when the car engine is not running; this may cause the battery of your car to drain. In some cars the cigarette lighter plug is not provided with electricity if the ignition is not switched on.

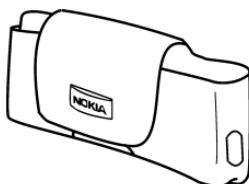
Loopset (LPS-3)

With the Nokia Loopset, people who use a T-coil equipped hearing aid have the freedom to talk on a digital mobile phone. The loopset goes around your neck - so it can be worn comfortably and discreetly.



Leather Carry Cases (CSL-28)

This luxurious leather case protects your phone. The CSL-28 has a convenient, integrated belt clip that allows it to fasten securely to a pocket, belt, etc.



• TROUBLESHOOTING

This section provides a table that lists some of the most commonly-encountered problems and provides possible solutions.

My phone isn't charging.	The charger and the phone are not properly connected.	Securely connect the charger to the phone.
	The charger is not properly plugged in.	Ensure that the charger is plugged in correctly.
	The battery may be too hot or cold.	Allow the battery to return to room temperature before charging.
My phone isn't making/answering calls.	The battery is not charged.	Charge the battery.
	The signal strength is poor.	If you are indoors, move toward a window.
I can't listen to my voice messages.	You don't have voice mail service.	Call your wireless service provider.
	You have not set up your voice mailbox with your service provider.	Call your wireless service provider.
	You have not saved your voice mail number in your phone.	Refer to "Set up your voice mailbox" on "Set up your voice mailbox" on page 28.
	The voice mail number you have saved is incorrect.	Call your wireless service provider.
	You have forgotten your password or are entering it incorrectly.	Call your wireless service provider.

My call does not go through.	Your phone may be turned off.	Verify that your phone is on.
	You may be outside your service area. No Service appears on the screen.	Verify that you are in your service area.
	You may have call restrictions set on that phone number.	Verify that the number does not have any restrictions on it. See "Restrict calls" on page 60.
	Your phone may be locked.	Refer to "Protect your phone with phone lock" on page 57.
	You may need to dial a '1' and/or an area code with the number.	Call your wireless service provider for dialing rules.

CERTIFICATION INFORMATION (SAR)

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.* Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (for example, at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone as reported to the FCC when tested for use at the ear is 1.17 W/kg, and when worn on the body, as described in this user guide, is 0.49 W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements).

While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID: GMLNSD-5FX.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines when used with the Nokia accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

*In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. SAR values may vary depending on national reporting requirements and the network band. For SAR information in other regions please look under product information at www.nokia.com/us.

21) Frequently Asked Questions (FAQ)

This section provides answers to questions users frequently ask. Some answers tell you to use shortcuts, refer to "Navigate menus" on page 18.

Q. How do I lock my phone?

A. Press Menu 4 – 3 – 2 – 1 (Settings > Security settings > Access codes > Phone lock), enter your lock code, scroll to On. Press OK.

Q. How do I unlock my phone?

A. Press Menu 4 – 3 – 2 – 1 (Settings > Security settings > Access codes > Phone lock), enter your lock code, scroll to Off. Press OK.

Q. What is my lock code?

A. The lock code enables you to lock your phone, thus preventing someone else from using it. The default lock code is 1234. However, it is suggested that you change this code immediately.

Q. What is my security code?

A. The default security code is 12345. However, it is suggested that you change this code immediately. Certain features can be used only after the correct security code has been successfully entered.

Q. How do I lock the keypad?

A. There are three ways you can lock the keypad:

- Press and hold .
- Press Menu, scroll up to Keypad, press Select.
- From the Start screen, press Menu 10 (Keypad). This feature is called Keypad.

Q. How do I unlock the keypad (Keyguard)?

A. There are two ways to unlock the keypad:

- Press and hold , then press OK, OR...
- Press **Unlock** and .

Q. How do I make the ringing louder?

A. Press **Menu 3 - 1 - 2 - 2** (**Profiles > Normal > Customize > Ringing volume**), then choose a volume level.

Q. How do I change the ringing tone?

A. Press **Menu 3** (**Profiles**). Scroll the list until you find the one where you will set the ringing tone. Press **Options**, and select **Customize**. Press **OK**, and scroll to **Ringing tones**. Press **Select**, and scroll to the tone you will use, and press **OK**.

Q. How do I store my voice mailbox number?

A. Press **Menu 0 - 1 - 2 - 2** (**Messages > Voice messages > Voice mailbox number**) enter your voice mailbox phone number. Press **OK**. The screen tells you that the number is saved. Then the following message appears: **Save hidden voice mailbox password?** Press **Yes** to save this number.

This mailbox number is valid until your phone number changes.

Q. How do I call my voice mailbox number (retrieve voice messages)?

A. When your phone alerts you to new voice messages, press **Listen** and follow the instructions on the phone. If you'd rather listen to your messages later, press **Exit**.

To listen to your voice messages at a later time, perform one of the following actions:

- Press and hold the **1** key.
- Press **Menu 0 - 1 - 2 - 1** (**Messages > Voice messages > Listen to voice messages**). The message **Calling voice mailbox** appears on the screen. Follow the prompts to access your messages.

Q. How do I find my phone's model number?

A. Turn your phone off, then remove the battery from the back of the phone. Your phone's model number is listed on the sticker that appears on the back of the phone, after the word "Model".

Q. How do I redial the last-dialed number?

A. Press the talk key  twice, quickly.

Q. How do I assign a key to one-touch dialing?

A. Press Names. Scroll to one-touch dialing. Press Select. Scroll to the first key that includes the message (empty). (Or, you can overwrite an existing key.) Press Assign. Scroll to the name or number to which you want to assign to this key. Press Select.

Q. How do I find out how many memory locations the phone has?

A. Press Names and scroll to Options. Press Select. Scroll to Memory status. Press Select.

Q. How do I find my phone's ESN (electronic serial number)?

A. Turn your phone off. Press and hold the button at the top of the battery as you slide the battery toward the bottom of the phone. Lift the battery off the phone. Your phone's ESN is listed on a sticker on the back of the phone, after the letters "ESN".

Q. How can I change the contrast of my phone's display?

A. The contrast of your phone's display is fixed and can not be changed.

Q. How do I clear my call timers?



Warning: The clearing of call timers cannot be undone.

A. Press Menu 2 – 5 – 4 (Call log > Call timers > Clear timers) and when the Security code field appears, enter your security code. Press OK.

22) Technical Information

Weight	87 g (3.06 oz.) with BLB-2 Battery
Size	80 cc (4.88 cu. in.)
Frequency Range	1851.25 – 1908.75 MHz (TX) 1931.25 – 1988.75 MHz (RX)
Transmitter Output Power	23.5 dBm
Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Number of NAMs	2
Memory Capacity	Up to 250 numbers

Manufactured or sold under one or more of the following U.S. patents: 5737323, 5758278, 6076181, 5889770, 5802465, 5491718, 5859843, 6078570, 99162, 07278, 6088342, 6167038, 6148290, 5444816, 5699482, 4969192, 5754976, 5701392, 5793744, 5596571, 6009129, 6005889, 6055264, 6084471, 5990740, 6154455, 5854978, 5790957, 6205325, 6253075, 5440597, 5796757, 6292474, 6029065, 5887250, 5821891, 5887252, 5708656, 6047071, 5929813, 6025802, 5642377, D405445, D406583, D414189, D405784, D423515. Others: 4558302, 4901307, 5056109, 5101501, 5109390, 5265119, RE 32580.

23) Nokia One-Year Limited Warranty

Nokia Inc. ("Nokia") warrants that this cellular phone ("Product") is free from defects in material and workmanship that result in Product failure during normal usage, according to the following terms and conditions:

- 1** The limited warranty for the Product extends for ONE (1) year beginning on the date of the purchase of the Product. This one year period is extended by each whole day that the Product is out of your possession for repair under this warranty.
- 2** The limited warranty extends only to the original purchaser ("Consumer") of the Product and is not assignable or transferable to any subsequent purchaser/end-user.
- 3** The limited warranty extends only to Consumers who purchase the Product in the United States of America.
- 4** During the limited warranty period, Nokia will repair, or replace, at Nokia's sole option, any defective parts, or any parts that will not properly operate for their intended use with new or refurbished replacement items if such repair or replacement is needed because of product malfunction or failure during normal usage. No charge will be made to the Consumer for any such parts. Nokia will also pay for the labor charges incurred by Nokia in repairing or replacing the defective parts. The limited warranty does not cover defects in appearance, cosmetic, decorative or structural items, including framing, and any non-operative parts. Nokia's limit of liability under the limited warranty shall be the actual cash value of the Product at the time the Consumer returns the Product for repair, determined by the price paid by the Consumer for the Product less a reasonable amount for usage. Nokia shall not be liable for any other losses or damages. These remedies are the Consumer's exclusive remedies for breach of warranty.

- 5 Upon request from Nokia, the Consumer must prove the date of the original purchase of the Product by a dated bill of sale or dated itemized receipt.
- 6 The Consumer shall bear the cost of shipping the Product to Nokia in Melbourne, Florida. Nokia shall bear the cost of shipping the Product back to the Consumer after the completion of service under this limited warranty.
- 7 The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:
 - a) The Product has been subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of Nokia, including damage caused by shipping.
 - b) The Product has been damaged from external causes such as collision with an object, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake or damage from exposure to weather conditions, an Act of God, or battery leakage, theft, blown fuse, or improper use of any electrical source, damage caused by computer or internet viruses, bugs, worms, Trojan Horses, cancelbots or damage caused by the connection to other products not recommended for interconnection by Nokia.
 - c) Nokia was not advised in writing by the Consumer of the alleged defect or malfunction of the Product within fourteen (14) days after the expiration of the applicable limited warranty period.
 - d) The Product serial number plate or the accessory data code has been removed, defaced or altered.
 - e) The defect or damage was caused by the defective function of the cellular system or by inadequate signal reception by the external antenna, or viruses or other software problems introduced into the Product.

8 Nokia does not warrant uninterrupted or error-free operation of the Product. If a problem develops during the limited warranty period, the Consumer shall take the following step-by-step procedure:

- a)** The Consumer shall return the Product to the place of purchase for repair or replacement processing.
- b)** If "a" is not convenient because of distance (more than 50 miles) or for other good cause, the Consumer shall ship the Product prepaid and insured to:
Nokia Inc., Attn: Repair Department
795 West Nasa Blvd.
Melbourne, FL 32901
- c)** The Consumer shall include a return address, daytime phone number and/or fax number, complete description of the problem, proof of purchase and service agreement (if applicable). Expenses related to removing the Product from an installation are not covered under this limited warranty.
- d)** The Consumer will be billed for any parts or labor charges not covered by this limited warranty. The Consumer will be responsible for any expenses related to reinstallation of the Product.
- e)** Nokia will repair the Product under the limited warranty within 30 days after receipt of the Product. If Nokia cannot perform repairs covered under this limited warranty within 30 days, or after a reasonable number of attempts to repair the same defect, Nokia at its option, will provide a replacement Product or refund the purchase price of the Product less a reasonable amount for usage. In some states the Consumer may have the right to a loaner if the repair of the Product takes more than ten (10) days. Please contact the Customer Service Center at Nokia at the telephone number listed at the end of this warranty if you need a loaner and the repair of the Product has taken or is estimated to take more than ten (10) days.

f) If the Product is returned during the limited warranty period, but the problem with the Product is not covered under the terms and conditions of this limited warranty, the Consumer will be notified and given an estimate of the charges the Consumer must pay to have the Product repaired, with all shipping charges billed to the Consumer. If the estimate is refused, the Product will be returned freight collect. If the Product is returned after the expiration of the limited warranty period, Nokia's normal service policies shall apply and the Consumer will be responsible for all shipping charges.

9 You (the Consumer) understand that the product may consist of refurbished equipment that contains used components, some of which have been reprocessed. The used components comply with Product performance and reliability specifications.

10 ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING LIMITED WRITTEN WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. NOKIA SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF DATA, PUNITIVE DAMAGES, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT OR FACILITIES, DOWNTIME, THE CLAIMS OF ANY THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY, RESULTING FROM THE PURCHASE OR USE OF THE PRODUCT OR ARISING FROM BREACH OF THE WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL OR EQUITABLE THEORY, EVEN IF NOKIA KNEW OF THE LIKELIHOOD OF SUCH DAMAGES. NOKIA SHALL NOT BE LIABLE FOR DELAY IN RENDERING SERVICE UNDER THE LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE PRODUCT IS BEING REPAIRED.

- 11 Some states do not allow limitation of how long an implied warranty lasts, so the one year warranty limitation may not apply to you (the Consumer). Some states do not allow the exclusion or limitation of incidental and consequential damages, so certain of the above limitations or exclusions may not apply to you (the Consumer). This limited warranty gives the Consumer specific legal rights and the Consumer may also have other rights which vary from state to state.
- 12 Nokia neither assumes nor authorizes any authorized service center or any other person or entity to assume for it any other obligation or liability beyond that which is expressly provided for in this limited warranty including the provider or seller of any extended warranty or service agreement.
- 13 This is the entire warranty between the Nokia and the Consumer, and supersedes all prior and contemporaneous agreements or understandings, oral or written, relating to the Product, and no representation, promise or condition not contained herein shall modify these terms.
- 14 This limited warranty allocates the risk of failure of the Product between the Consumer and Nokia. The allocation is recognized by the Consumer and is reflected in the purchase price.
- 15 Any action or lawsuit for breach of warranty must be commenced within eighteen (18) months following purchase of the Product.
- 16 Questions concerning this limited warranty may be directed to:
Nokia Inc.
Attn: Customer Service
7725 Woodland Center Blvd., Ste. 150
Tampa, FL 33614
Telephone: 1-888-NOKIA-2U (1-888-665-4228)
Facsimile: (813) 287-6612
TTY/TDD Users Only: 1-800-24-NOKIA (1-800-246-6542)
- 17 The limited warranty period for Nokia supplied attachments and accessories is specifically defined within their own warranty cards and packaging.

NOTES

Appendix A:

Message from the CTIA (Cellular Telecommunications & Internet Association) to all users of mobile phones.

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Safety is the most important call you will ever make.

A Guide to Safe and Responsible Wireless Phone Use

Tens of millions of people in the U.S. today take advantage of the unique combination of convenience, safety and value delivered by the wireless telephone. Quite simply, the wireless phone gives people the powerful ability to communicate by voice--almost anywhere, anytime--with the boss, with a client, with the kids, with emergency personnel or even with the police. Each year, Americans make billions of calls from their wireless phones, and the numbers are rapidly growing. But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first responsibility. A wireless phone can be an invaluable tool, but good judgment must be exercised at all times while driving a motor vehicle--whether on the phone or not.

The basic lessons are ones we all learned as teenagers. Driving requires alertness, caution and courtesy. It requires a heavy dose of basic common sense--keep your head up, keep your eyes on the road, check your mirrors frequently and watch out for other drivers. It requires obeying all traffic signs and signals and staying within the speed limit. It means using seatbelts and requiring other passengers to do the same.

But with wireless phone use, driving safely means a little more. This brochure is a call to wireless phone users everywhere to make safety their first priority when behind the wheel of a car. Wireless telecommunications is keeping us in touch, simplifying our lives, protecting us in emergencies and providing opportunities to help others in need.

When it comes to the use of wireless phones, *safety is your most important call.*

Wireless Phone "Safety Tips"

Below are safety tips to follow while driving and using a wireless phone which should be easy to remember.

- 1 Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
- 2 When available, use a hands free device. A number of hands free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.
- 3 Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.
- 4 Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the

call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.

- 5 Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to do" list while driving a car, you are not watching where you are going. It's common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
- 6 Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip--dial only a few numbers, check the road and your mirrors, then continue.
- 7 Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix--they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
- 8 Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations--with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!
- 9 Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
- 10 Call roadside assistance or a special wireless non-emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

Careless, distracted individuals and people driving irresponsibly represent a hazard to everyone on the road. Since 1984, the Cellular Telecommunications Industry Association and the wireless industry have conducted educational outreach to inform wireless phone users of their responsibilities as safe drivers and good citizens. As we approach a new century, more and more of us will take advantage of the benefits of wireless telephones. And, as we take to the roads, we all have a responsibility to drive safely.

The wireless industry reminds you to use your phone safely when driving.

For more information, please call 1-888-901-SAFE.
For updates: <http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID=85>

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Phone: (202) 785-0081

Appendix B:

Message from the FDA (U.S. Food and Drug Administration) to all users of mobile phones.

July 18, 2001 For updates: <http://www.fda.gov/cdrh/phones>

Consumer Update on Wireless Phones

U.S. Food and Drug Administration

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones. FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called cell mobile or PCS phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called cordless phones, which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be predisposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer-promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects.

Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/efsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques, sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products--and at this point we do not know that there is--it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones.

Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a accompanied hearing aid at the same time. This standard was approved by the IEEE in 2000. FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones
<http://www.fda.gov/cdrh/phones/index.html>
- Federal Communications Commission (FCC) RF Safety Program
<http://www.fcc.gov/oet/rfsafety>
- International Commission on Non-Ionizing Radiation Protection
<http://www.icnirp.de>
- World Health Organization (WHO) International EMF Project
<http://www.who.int/emf>
- National Radiological Protection Board (UK)
<http://www.nrpb.org.uk/>

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